

Pham 301081



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 301081 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301081 has 192 members, 24 are drafts.

Phages represented in each track:

- Track 1 : ABCat_124, Harella_129, Emmina_123, SophKB_122, Eureka_123, Marshmallow_125, Traaww1_120, TeardropMSU_123, Toto_122, Murica_127, TBrady12_127, Lilac_124, Murphy_122, DrDrey_127, Sotrice96_128, Liveloughbron_124, Daikon_125, Flypotenuse_119, Myrale_124, Pat3_123, BadStone_124, Balomoji_124, Henry_125, YassJohnny_120, Youngblood_127, MadamMonkfish_124, Tarkin_122, Bask21_128, Tuco_128, Asriel_121, Czystczon1_123, Phaux_125, JeTaimé_122, Mindy_126, Saints25_119, Highbury_119, CrystalP_124, Quallification_124, Barbarian_123, Pumpkin_124, Porky_123, Glexan_127, OrionPax_120, SirDuracell_128, ShamWow_124, Kanye_120, StormChicken_125, Gage_125, Icee_128, Hoonter_126, MPhalcon_124, Willez_119, ShereKhan_121, Dusk_123, MollyToe_117
- Track 2 : Brewer_119, Miniwave_117, Thresher_124, Stank_126, NonchalantPear_123, HanKaySha_123, Adnama_127, Bench_125, Filch_126, Holt_129, Palpatine_124, Xandras_123, ChotaBhai_127, Moldemort_125, Wiggin_126, Gemini_128, AmericanBeauty_126
- Track 3 : HufflyPuff_125, Misfit_124, Command613_126, GoldenSpark_127, MISSy_124, Phrux_119, Tomaszewski_118, GooberAzure_125, Elite2014_124, Dumbo_125, Bruin_120, Sassay_118, NelitzaMV_120, DoctorDiddles_122, Kimchi_128, Petra64142_126, Lilpickle_124, Argent26_127, Paperbeatsrock_122, Bogg_125, Inca_123, Terminus_126, Buck_124, Ukulele_118, ChosenOne_125, Greep_128, xkcd_127, 244_125, Easy2Say_123, Simpliphy_121, Mosby_120, Manda_124, Lilizi_123, Nimrod_124, BaboJay_123, Hopey_123, Maxxinista_125, Stark_122, RiverMonster_122, Goldilocks_127, Cjw1_123, TeamEdward_123, PhatBacter_126, Contagion_120, StellaBean_121, FireRed_126
- Track 4 : Goku_123, NoSleep_123, IHOP_126, Nala_125, Amao_128, Phaja_126, BugsBunny_123, Rakim_125, Ptowny_118
- Track 5 : BigBubba_125, Policronamos_126, Rimmer_121, Cactus_131, StolenFromERC_125, FairyPath_124, BilboSwaggins_122
- Track 6 : FoghornLeghorn_122, Elph10_122, Becksu_123
- Track 7 : Cookies_125
- Track 8 : PaddyBaddy_122
- Track 9 : Budgie_131
- Track 10 : EricMillard_171, Dove_160, Dallas_173, Phoebus_174, Beem_174, HokkenD_168, BAKA_179, DmpstrDiver_174, Ejimix_164, Bombitas_160, Constella_169, Odette_177, Hughesyang_172, Xiaokay_169, Klein_177, Bobby_165, Optimus_172, Kalah2_170, Duke13_176, Minerva_173, Halley_174, Bagrid_182, Schatzie_168, JuicyJay_168, Thibault_157, Zelink_166, Wanda_171, Redno2_167,

Marleymoo_160, Yeet_165, NihilNomen_175, Pound_167

- Track 11 : Omega_183, Courthouse_171, Nibley_167, KashFlow_171, Rearden_173, BronnyJames_169, Superphikiman_172, Hannaconda_166, ThreeRngTarjay_170, Lucky2013_170, Porcelain_174, Shaboozey_172, MiaZeal_177, Nekros_173, Ariel_174, Gonephishing_168

- Track 12 : Hidrated_166

- Track 13 : Stellammi_170

- Track 14 : Nebkiss_138

- Track 15 : Gaia_141

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

The start number called the most often in the published annotations is 8, it was called in 94 of the 168 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_125, ABCat_124, Argent26_127, Asriel_121, BaboJay_123, BadStone_124, Balomoji_124, Barbarian_123, Bask21_128, Bogg_125, Bruin_120, Buck_124, Budgie_131, ChosenOne_125, Cjw1_123, Command613_126, Contagion_120, CrystalP_124, Czystczon1_123, Daikon_125, DoctorDiddles_122, DrDrey_127, Dumbo_125, Dusk_123, Easy2Say_123, Elite2014_124, Emmina_123, Eureka_123, FireRed_126, Flypotenuse_119, Gage_125, Glexan_127, GoldenSpark_127, Goldilocks_127, GooberAzure_125, Greep_128, Harella_129, Henry_125, Highbury_119, Hoonter_126, Hopey_123, HufflyPuff_125, Icee_128, Inca_123, JeTaime_122, Kanye_120, Kimchi_128, Lilac_124, Lilizi_123, Lilpickle_124, Livilaughbron_124, MISSy_124, MPhalcon_124, MadamMonkfish_124, Manda_124, Marshmallow_125, Maxxinista_125, Mindy_126, Misfit_124, MollyToe_117, Mosby_120, Murica_127, Murphy_122, Myrale_124, NelitzaMV_120, Nimrod_124, OrionPax_120, PaddyBaddy_122, Paperbeatsrock_122, Pat3_123, Petra64142_126, PhatBacter_126, Phaux_125, Phrux_119, Porky_123, Pumpkin_124, Quallification_124, RiverMonster_122, Saints25_119, Sassay_118, ShamWow_124, ShereKhan_121, Simpliphy_121, SirDuracell_128, SophKB_122, Sotrice96_128, Stark_122, StellaBean_121, StormChicken_125, TBrady12_127, Tarkin_122, TeamEdward_123, TeardropMSU_123, Terminus_126, Tomaszewski_118, Toto_122, Traaww1_120, Tuco_128, Ukulele_118, Willez_119, YassJohnny_120, Youngblood_127, xkcd_127,

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

- Adnama_127, Amao_128, AmericanBeauty_126, Becksu_123, Bench_125, BigBubba_125, BilboSwaggins_122, Brewer_119, BugsBunny_123, Cactus_131, ChotaBhai_127, Cookies_125, Elph10_122, FairyPath_124, Filch_126, FoghornLeghorn_122, Gemini_128, Goku_123, HanKaySha_123, Holt_129, IHOP_126, Miniwave_117, Moldemort_125, Nala_125, NoSleep_123, NonchalantPear_123, Palpatine_124, Phaja_126, Policronamos_126, Ptowny_118, Rakim_125, Rimmer_121, Stank_126, StolenFromERC_125, Thresher_124, Wiggin_126, Xandras_123,

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

- Ariel_174, BAKA_179, Bagrid_182, Beem_174, Bobby_165, Bombitas_160, BronnyJames_169, Constella_169, Courthouse_171, Dallas_173, DmpstrDiver_174,

Dove_160, Duke13_176, Ejimix_164, EricMillard_171, Gaia_141, Gonephishing_168, Halley_174, Hannaconda_166, Hidrated_166, HokkenD_168, Hughesyang_172, JuicyJay_168, Kalah2_170, KashFlow_171, Klein_177, Lucky2013_170, Marleymoo_160, MiaZeal_177, Minerva_173, Nebkiss_138, Nekros_173, Nibley_167, NihilNomen_175, Odette_177, Omega_183, Optimus_172, Phoebus_174, Porcelain_174, Pound_167, Rearden_173, Redno2_167, Schatzie_168, Shaboozey_172, Stellammi_170, Superphikiman_172, Thibault_157, ThreeRngTarjay_170, Wanda_171, Xiaokay_169, Yeet_165, Zelink_166,

Summary by start number:

Start 3:

- Found in 2 of 192 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 168
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_141 (X), Nebkiss_138 (X),

Start 4:

- Found in 33 of 192 (17.2%) of genes in pham
- Manual Annotations of this start: 28 of 168
- Called 97.0% of time when present
- Phage (with cluster) where this start called: BAKA_179 (J), Bagrid_182 (J), Beem_174 (J), Bobby_165 (J), Bombitas_160 (J), Constella_169 (J), Dallas_173 (J), DmpstrDiver_174 (J), Dove_160 (J), Duke13_176 (J), Ejimix_164 (J), EricMillard_171 (J), Halley_174 (J), HokkenD_168 (J), Hughesyang_172 (J), JuicyJay_168 (J), Kalah2_170 (J), Klein_177 (J), Marleymoo_160 (J), Minerva_173 (J), NihilNomen_175 (J), Odette_177 (J), Optimus_172 (J), Phoebus_174 (J), Pound_167 (J), Redno2_167 (J), Schatzie_168 (J), Thibault_157 (J), Wanda_171 (J), Xiaokay_169 (J), Yeet_165 (J), Zelink_166 (J),

Start 5:

- Found in 17 of 192 (8.9%) of genes in pham
- Manual Annotations of this start: 11 of 168
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_174 (J), BronnyJames_169 (J), Courthouse_171 (J), Gonephishing_168 (J), Hannaconda_166 (J), KashFlow_171 (J), Lucky2013_170 (J), MiaZeal_177 (J), Nekros_173 (J), Nibley_167 (J), Omega_183 (J), Porcelain_174 (J), Rearden_173 (J), Shaboozey_172 (J), Stellammi_170 (UNK), Superphikiman_172 (J), ThreeRngTarjay_170 (J),

Start 8:

- Found in 140 of 192 (72.9%) of genes in pham
- Manual Annotations of this start: 94 of 168
- Called 73.6% of time when present
- Phage (with cluster) where this start called: 244_125 (E), ABCat_124 (E), Argent26_127 (E), Asriel_121 (E), BaboJay_123 (E), BadStone_124 (E), Balomoji_124 (E), Barbarian_123 (E), Bask21_128 (E), Bogg_125 (E), Bruin_120 (E), Buck_124 (E), Budgie_131 (E), ChosenOne_125 (E), Cjw1_123 (E), Command613_126 (E), Contagion_120 (E), CrystalP_124 (E), Czyszccon1_123 (E), Daikon_125 (E), DoctorDiddles_122 (E), DrDrey_127 (E), Dumbo_125 (E), Dusk_123 (E), Easy2Say_123 (E), Elite2014_124 (E), Emmina_123 (E), Eureka_123 (E), FireRed_126 (E), Flypotenuse_119 (E), Gage_125 (E), Glexan_127 (E), GoldenSpark_127 (E), Goldilocks_127 (E), GooberAzure_125 (E), Greep_128 (E),

Harella_129 (E), Henry_125 (E), Highbury_119 (E), Hoonter_126 (E), Hopey_123 (E), HufflyPuff_125 (E), Icee_128 (E), Inca_123 (E), JeTaime_122 (E), Kanye_120 (E), Kimchi_128 (E), Lilac_124 (E), Lilizi_123 (E), Lilpickle_124 (E), Liveloughbron_124 (E), MISSy_124 (E), MPhalcon_124 (E), MadamMonkfish_124 (E), Manda_124 (E), Marshmallow_125 (E), Maxxinista_125 (E), Mindy_126 (E), Misfit_124 (E), MollyToe_117 (E), Mosby_120 (E), Murica_127 (E), Murphy_122 (E), Myrale_124 (E), NelitzaMV_120 (E), Nimrod_124 (E), OrionPax_120 (E), PaddyBaddy_122 (E), Paperbeatsrock_122 (E), Pat3_123 (E), Petra64142_126 (E), PhatBacter_126 (E), Phaux_125 (E), Phrux_119 (E), Porky_123 (E), Pumpkin_124 (E), Qualification_124 (E), RiverMonster_122 (E), Saints25_119 (E), Sassay_118 (E), ShamWow_124 (E), ShereKhan_121 (E), Simpliphy_121 (E), SirDuracell_128 (E), SophKB_122 (E), Sotrice96_128 (E), Stark_122 (E), StellaBean_121 (E), StormChicken_125 (E), TBrady12_127 (E), Tarkin_122 (E), TeamEdward_123 (E), TeardropMSU_123 (E), Terminus_126 (E), Tomaszewski_118 (E), Toto_122 (E), Traaww1_120 (E), Tuco_128 (E), Ukulele_118 (E), Willez_119 (E), YassJohnny_120 (E), Youngblood_127 (E), xkcd_127 (E),

Start 9:

- Found in 139 of 192 (72.4%) of genes in pham
- Manual Annotations of this start: 25 of 168
- Called 18.0% of time when present
- Phage (with cluster) where this start called: Adnama_127 (E), AmericanBeauty_126 (E), Bench_125 (E), BigBubba_125 (E), BilboSwaggins_122 (E), Brewer_119 (E), Cactus_131 (E), ChotaBhai_127 (E), Cookies_125 (E), FairyPath_124 (E), Filch_126 (E), Gemini_128 (E), HanKaySha_123 (E), Holt_129 (E), Miniwave_117 (E), Moldemort_125 (E), NonchalantPear_123 (E), Palpatine_124 (E), Policronamos_126 (E), Rimmer_121 (E), Stank_126 (E), StolenFromERC_125 (E), Thresher_124 (E), Wiggin_126 (E), Xandras_123 (E),

Start 10:

- Found in 140 of 192 (72.9%) of genes in pham
- Manual Annotations of this start: 8 of 168
- Called 8.6% of time when present
- Phage (with cluster) where this start called: Amao_128 (E), Becksu_123 (E), BugsBunny_123 (E), Elph10_122 (E), FoghornLeghorn_122 (E), Goku_123 (E), IHOP_126 (E), Nala_125 (E), NoSleep_123 (E), Phaja_126 (E), Ptowny_118 (E), Rakim_125 (E),

Start 11:

- Found in 33 of 192 (17.2%) of genes in pham
- No Manual Annotations of this start.
- Called 3.0% of time when present
- Phage (with cluster) where this start called: Hidrated_166 (J),

Summary by clusters:

There are 4 clusters represented in this pham: X, UNK, J, E,

Info for manual annotations of cluster E:

- Start number 8 was manually annotated 94 times for cluster E.
- Start number 9 was manually annotated 25 times for cluster E.
- Start number 10 was manually annotated 8 times for cluster E.

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 28 times for cluster J.
- Start number 5 was manually annotated 10 times for cluster J.

Info for manual annotations of cluster UNK:

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

Info for manual annotations of cluster X:

- Start number 3 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_125 Start: 67757, Stop: 67894, Start Num: 8

Candidate Starts for 244_125:

(Start: 8 @67757 has 94 MA's), (Start: 9 @67760 has 25 MA's), (Start: 10 @67769 has 8 MA's), (17, 67886), (18, 67889),

Gene: ABCat_124 Start: 69240, Stop: 69377, Start Num: 8

Candidate Starts for ABCat_124:

(Start: 8 @69240 has 94 MA's), (Start: 9 @69243 has 25 MA's), (Start: 10 @69252 has 8 MA's), (15, 69300), (17, 69369), (18, 69372),

Gene: Adnama_127 Start: 67673, Stop: 67807, Start Num: 9

Candidate Starts for Adnama_127:

(Start: 8 @67670 has 94 MA's), (Start: 9 @67673 has 25 MA's), (Start: 10 @67682 has 8 MA's), (17, 67799), (18, 67802),

Gene: Amao_128 Start: 68910, Stop: 69035, Start Num: 10

Candidate Starts for Amao_128:

(Start: 8 @68898 has 94 MA's), (Start: 9 @68901 has 25 MA's), (Start: 10 @68910 has 8 MA's), (15, 68958), (17, 69027), (18, 69030),

Gene: AmericanBeauty_126 Start: 67715, Stop: 67849, Start Num: 9

Candidate Starts for AmericanBeauty_126:

(Start: 8 @67712 has 94 MA's), (Start: 9 @67715 has 25 MA's), (Start: 10 @67724 has 8 MA's), (17, 67841), (18, 67844),

Gene: Argent26_127 Start: 67594, Stop: 67731, Start Num: 8

Candidate Starts for Argent26_127:

(Start: 8 @67594 has 94 MA's), (Start: 9 @67597 has 25 MA's), (Start: 10 @67606 has 8 MA's), (17, 67723), (18, 67726),

Gene: Ariel_174 Start: 88122, Stop: 88295, Start Num: 5

Candidate Starts for Ariel_174:

(Start: 5 @88122 has 11 MA's), (12, 88179), (14, 88194),

Gene: Asriel_121 Start: 66545, Stop: 66682, Start Num: 8

Candidate Starts for Asriel_121:

(Start: 8 @66545 has 94 MA's), (Start: 9 @66548 has 25 MA's), (Start: 10 @66557 has 8 MA's), (15, 66605), (17, 66674), (18, 66677),

Gene: BAKA_179 Start: 92922, Stop: 93092, Start Num: 4

Candidate Starts for BAKA_179:

(Start: 4 @92922 has 28 MA's), (11, 92976), (12, 92979),

Gene: BaboJay_123 Start: 68930, Stop: 69067, Start Num: 8

Candidate Starts for BaboJay_123:

(Start: 8 @68930 has 94 MA's), (Start: 9 @68933 has 25 MA's), (Start: 10 @68942 has 8 MA's), (17, 69059), (18, 69062),

Gene: BadStone_124 Start: 68788, Stop: 68925, Start Num: 8

Candidate Starts for BadStone_124:

(Start: 8 @68788 has 94 MA's), (Start: 9 @68791 has 25 MA's), (Start: 10 @68800 has 8 MA's), (15, 68848), (17, 68917), (18, 68920),

Gene: Bagrid_182 Start: 93388, Stop: 93558, Start Num: 4

Candidate Starts for Bagrid_182:

(Start: 4 @93388 has 28 MA's), (11, 93442), (12, 93445),

Gene: Balomoji_124 Start: 68328, Stop: 68465, Start Num: 8

Candidate Starts for Balomoji_124:

(Start: 8 @68328 has 94 MA's), (Start: 9 @68331 has 25 MA's), (Start: 10 @68340 has 8 MA's), (15, 68388), (17, 68457), (18, 68460),

Gene: Barbarian_123 Start: 66545, Stop: 66682, Start Num: 8

Candidate Starts for Barbarian_123:

(Start: 8 @66545 has 94 MA's), (Start: 9 @66548 has 25 MA's), (Start: 10 @66557 has 8 MA's), (15, 66605), (17, 66674), (18, 66677),

Gene: Bask21_128 Start: 67700, Stop: 67837, Start Num: 8

Candidate Starts for Bask21_128:

(Start: 8 @67700 has 94 MA's), (Start: 9 @67703 has 25 MA's), (Start: 10 @67712 has 8 MA's), (15, 67760), (17, 67829), (18, 67832),

Gene: Becksu_123 Start: 68588, Stop: 68713, Start Num: 10

Candidate Starts for Becksu_123:

(Start: 8 @68576 has 94 MA's), (Start: 9 @68579 has 25 MA's), (Start: 10 @68588 has 8 MA's), (17, 68705), (18, 68708),

Gene: Beem_174 Start: 92077, Stop: 92247, Start Num: 4

Candidate Starts for Beem_174:

(Start: 4 @92077 has 28 MA's), (11, 92131), (12, 92134),

Gene: Bench_125 Start: 68354, Stop: 68488, Start Num: 9

Candidate Starts for Bench_125:

(Start: 8 @68351 has 94 MA's), (Start: 9 @68354 has 25 MA's), (Start: 10 @68363 has 8 MA's), (17, 68480), (18, 68483),

Gene: BigBubba_125 Start: 67406, Stop: 67540, Start Num: 9

Candidate Starts for BigBubba_125:

(Start: 8 @67403 has 94 MA's), (Start: 9 @67406 has 25 MA's), (Start: 10 @67415 has 8 MA's), (15, 67463), (17, 67532), (18, 67535),

Gene: BilboSwaggins_122 Start: 68828, Stop: 68962, Start Num: 9

Candidate Starts for BilboSwaggins_122:

(Start: 8 @68825 has 94 MA's), (Start: 9 @68828 has 25 MA's), (Start: 10 @68837 has 8 MA's), (15, 68885), (17, 68954), (18, 68957),

Gene: Bobby_165 Start: 92821, Stop: 92991, Start Num: 4

Candidate Starts for Bobby_165:

(Start: 4 @92821 has 28 MA's), (11, 92875), (12, 92878),

Gene: Bogg_125 Start: 67870, Stop: 68007, Start Num: 8

Candidate Starts for Bogg_125:

(Start: 8 @67870 has 94 MA's), (Start: 9 @67873 has 25 MA's), (Start: 10 @67882 has 8 MA's), (17, 67999), (18, 68002),

Gene: Bombitas_160 Start: 88307, Stop: 88477, Start Num: 4

Candidate Starts for Bombitas_160:

(Start: 4 @88307 has 28 MA's), (11, 88361), (12, 88364),

Gene: Brewer_119 Start: 66510, Stop: 66644, Start Num: 9

Candidate Starts for Brewer_119:

(Start: 8 @66507 has 94 MA's), (Start: 9 @66510 has 25 MA's), (Start: 10 @66519 has 8 MA's), (17, 66636), (18, 66639),

Gene: BronnyJames_169 Start: 88154, Stop: 88327, Start Num: 5

Candidate Starts for BronnyJames_169:

(Start: 5 @88154 has 11 MA's), (12, 88211), (14, 88226),

Gene: Bruin_120 Start: 67035, Stop: 67172, Start Num: 8

Candidate Starts for Bruin_120:

(Start: 8 @67035 has 94 MA's), (Start: 9 @67038 has 25 MA's), (Start: 10 @67047 has 8 MA's), (17, 67164), (18, 67167),

Gene: Buck_124 Start: 68851, Stop: 68988, Start Num: 8

Candidate Starts for Buck_124:

(Start: 8 @68851 has 94 MA's), (Start: 9 @68854 has 25 MA's), (Start: 10 @68863 has 8 MA's), (17, 68980), (18, 68983),

Gene: Budgie_131 Start: 69097, Stop: 69234, Start Num: 8

Candidate Starts for Budgie_131:

(Start: 8 @69097 has 94 MA's), (Start: 10 @69109 has 8 MA's), (13, 69124),

Gene: BugsBunny_123 Start: 68361, Stop: 68486, Start Num: 10

Candidate Starts for BugsBunny_123:

(Start: 8 @68349 has 94 MA's), (Start: 9 @68352 has 25 MA's), (Start: 10 @68361 has 8 MA's), (15, 68409), (17, 68478), (18, 68481),

Gene: Cactus_131 Start: 68151, Stop: 68285, Start Num: 9

Candidate Starts for Cactus_131:

(Start: 8 @68148 has 94 MA's), (Start: 9 @68151 has 25 MA's), (Start: 10 @68160 has 8 MA's), (15, 68208), (17, 68277), (18, 68280),

Gene: ChosenOne_125 Start: 67825, Stop: 67962, Start Num: 8

Candidate Starts for ChosenOne_125:

(Start: 8 @67825 has 94 MA's), (Start: 9 @67828 has 25 MA's), (Start: 10 @67837 has 8 MA's), (17, 67954), (18, 67957),

Gene: ChotaBhai_127 Start: 68550, Stop: 68684, Start Num: 9

Candidate Starts for ChotaBhai_127:

(Start: 8 @68547 has 94 MA's), (Start: 9 @68550 has 25 MA's), (Start: 10 @68559 has 8 MA's), (17, 68676), (18, 68679),

Gene: Cjw1_123 Start: 69044, Stop: 69181, Start Num: 8

Candidate Starts for Cjw1_123:

(Start: 8 @69044 has 94 MA's), (Start: 9 @69047 has 25 MA's), (Start: 10 @69056 has 8 MA's), (17, 69173), (18, 69176),

Gene: Command613_126 Start: 68321, Stop: 68458, Start Num: 8

Candidate Starts for Command613_126:

(Start: 8 @68321 has 94 MA's), (Start: 9 @68324 has 25 MA's), (Start: 10 @68333 has 8 MA's), (17, 68450), (18, 68453),

Gene: Constella_169 Start: 90811, Stop: 90981, Start Num: 4

Candidate Starts for Constella_169:

(Start: 4 @90811 has 28 MA's), (11, 90865), (12, 90868),

Gene: Contagion_120 Start: 67397, Stop: 67534, Start Num: 8

Candidate Starts for Contagion_120:

(Start: 8 @67397 has 94 MA's), (Start: 9 @67400 has 25 MA's), (Start: 10 @67409 has 8 MA's), (17, 67526), (18, 67529),

Gene: Cookies_125 Start: 68634, Stop: 68768, Start Num: 9

Candidate Starts for Cookies_125:

(Start: 8 @68631 has 94 MA's), (Start: 9 @68634 has 25 MA's), (Start: 10 @68643 has 8 MA's), (15, 68691), (17, 68760),

Gene: Courthouse_171 Start: 88566, Stop: 88739, Start Num: 5

Candidate Starts for Courthouse_171:

(Start: 5 @88566 has 11 MA's), (12, 88623), (14, 88638),

Gene: CrystalP_124 Start: 68825, Stop: 68962, Start Num: 8

Candidate Starts for CrystalP_124:

(Start: 8 @68825 has 94 MA's), (Start: 9 @68828 has 25 MA's), (Start: 10 @68837 has 8 MA's), (15, 68885), (17, 68954), (18, 68957),

Gene: Czyszczone1_123 Start: 67390, Stop: 67527, Start Num: 8

Candidate Starts for Czyszczone1_123:

(Start: 8 @67390 has 94 MA's), (Start: 9 @67393 has 25 MA's), (Start: 10 @67402 has 8 MA's), (15, 67450), (17, 67519), (18, 67522),

Gene: Daikon_125 Start: 67624, Stop: 67761, Start Num: 8

Candidate Starts for Daikon_125:

(Start: 8 @67624 has 94 MA's), (Start: 9 @67627 has 25 MA's), (Start: 10 @67636 has 8 MA's), (15, 67684), (17, 67753), (18, 67756),

Gene: Dallas_173 Start: 91300, Stop: 91470, Start Num: 4

Candidate Starts for Dallas_173:

(Start: 4 @91300 has 28 MA's), (11, 91354), (12, 91357),

Gene: DmpstrDiver_174 Start: 90744, Stop: 90914, Start Num: 4

Candidate Starts for DmpstrDiver_174:

(Start: 4 @90744 has 28 MA's), (11, 90798), (12, 90801),

Gene: DoctorDiddles_122 Start: 67284, Stop: 67421, Start Num: 8

Candidate Starts for DoctorDiddles_122:

(Start: 8 @67284 has 94 MA's), (Start: 9 @67287 has 25 MA's), (Start: 10 @67296 has 8 MA's), (17, 67413), (18, 67416),

Gene: Dove_160 Start: 86663, Stop: 86833, Start Num: 4

Candidate Starts for Dove_160:

(Start: 4 @86663 has 28 MA's), (11, 86717), (12, 86720),

Gene: DrDrey_127 Start: 70021, Stop: 70158, Start Num: 8

Candidate Starts for DrDrey_127:

(Start: 8 @70021 has 94 MA's), (Start: 9 @70024 has 25 MA's), (Start: 10 @70033 has 8 MA's), (15, 70081), (17, 70150), (18, 70153),

Gene: Duke13_176 Start: 91418, Stop: 91588, Start Num: 4

Candidate Starts for Duke13_176:

(Start: 4 @91418 has 28 MA's), (11, 91472), (12, 91475),

Gene: Dumbo_125 Start: 68017, Stop: 68154, Start Num: 8

Candidate Starts for Dumbo_125:

(Start: 8 @68017 has 94 MA's), (Start: 9 @68020 has 25 MA's), (Start: 10 @68029 has 8 MA's), (17, 68146), (18, 68149),

Gene: Dusk_123 Start: 68448, Stop: 68585, Start Num: 8

Candidate Starts for Dusk_123:

(Start: 8 @68448 has 94 MA's), (Start: 9 @68451 has 25 MA's), (Start: 10 @68460 has 8 MA's), (15, 68508), (17, 68577), (18, 68580),

Gene: Easy2Say_123 Start: 68061, Stop: 68198, Start Num: 8

Candidate Starts for Easy2Say_123:

(Start: 8 @68061 has 94 MA's), (Start: 9 @68064 has 25 MA's), (Start: 10 @68073 has 8 MA's), (17, 68190), (18, 68193),

Gene: Ejimix_164 Start: 90288, Stop: 90458, Start Num: 4

Candidate Starts for Ejimix_164:

(Start: 4 @90288 has 28 MA's), (11, 90342), (12, 90345),

Gene: Elite2014_124 Start: 67824, Stop: 67961, Start Num: 8

Candidate Starts for Elite2014_124:

(Start: 8 @67824 has 94 MA's), (Start: 9 @67827 has 25 MA's), (Start: 10 @67836 has 8 MA's), (17, 67953), (18, 67956),

Gene: Elph10_122 Start: 67085, Stop: 67210, Start Num: 10

Candidate Starts for Elph10_122:

(Start: 8 @67073 has 94 MA's), (Start: 9 @67076 has 25 MA's), (Start: 10 @67085 has 8 MA's), (17, 67202), (18, 67205),

Gene: Emmina_123 Start: 67012, Stop: 67149, Start Num: 8
Candidate Starts for Emmina_123:
(Start: 8 @67012 has 94 MA's), (Start: 9 @67015 has 25 MA's), (Start: 10 @67024 has 8 MA's), (15, 67072), (17, 67141), (18, 67144),

Gene: EricMillard_171 Start: 91998, Stop: 92168, Start Num: 4
Candidate Starts for EricMillard_171:
(Start: 4 @91998 has 28 MA's), (11, 92052), (12, 92055),

Gene: Eureka_123 Start: 68200, Stop: 68337, Start Num: 8
Candidate Starts for Eureka_123:
(Start: 8 @68200 has 94 MA's), (Start: 9 @68203 has 25 MA's), (Start: 10 @68212 has 8 MA's), (15, 68260), (17, 68329), (18, 68332),

Gene: FairyPath_124 Start: 68508, Stop: 68642, Start Num: 9
Candidate Starts for FairyPath_124:
(Start: 8 @68505 has 94 MA's), (Start: 9 @68508 has 25 MA's), (Start: 10 @68517 has 8 MA's), (15, 68565), (17, 68634), (18, 68637),

Gene: Filch_126 Start: 67969, Stop: 68103, Start Num: 9
Candidate Starts for Filch_126:
(Start: 8 @67966 has 94 MA's), (Start: 9 @67969 has 25 MA's), (Start: 10 @67978 has 8 MA's), (17, 68095), (18, 68098),

Gene: FireRed_126 Start: 68476, Stop: 68613, Start Num: 8
Candidate Starts for FireRed_126:
(Start: 8 @68476 has 94 MA's), (Start: 9 @68479 has 25 MA's), (Start: 10 @68488 has 8 MA's), (17, 68605), (18, 68608),

Gene: Flypotenuse_119 Start: 67199, Stop: 67336, Start Num: 8
Candidate Starts for Flypotenuse_119:
(Start: 8 @67199 has 94 MA's), (Start: 9 @67202 has 25 MA's), (Start: 10 @67211 has 8 MA's), (15, 67259), (17, 67328), (18, 67331),

Gene: FoghornLeghorn_122 Start: 66925, Stop: 67050, Start Num: 10
Candidate Starts for FoghornLeghorn_122:
(Start: 8 @66913 has 94 MA's), (Start: 9 @66916 has 25 MA's), (Start: 10 @66925 has 8 MA's), (17, 67042), (18, 67045),

Gene: Gage_125 Start: 67732, Stop: 67869, Start Num: 8
Candidate Starts for Gage_125:
(Start: 8 @67732 has 94 MA's), (Start: 9 @67735 has 25 MA's), (Start: 10 @67744 has 8 MA's), (15, 67792), (17, 67861), (18, 67864),

Gene: Gaia_141 Start: 76306, Stop: 76485, Start Num: 3
Candidate Starts for Gaia_141:
(Start: 3 @76306 has 2 MA's), (6, 76327), (12, 76369), (15, 76402), (16, 76432), (17, 76477),

Gene: Gemini_128 Start: 68114, Stop: 68248, Start Num: 9
Candidate Starts for Gemini_128:
(Start: 8 @68111 has 94 MA's), (Start: 9 @68114 has 25 MA's), (Start: 10 @68123 has 8 MA's), (17, 68240), (18, 68243),

Gene: Glexan_127 Start: 68745, Stop: 68882, Start Num: 8
Candidate Starts for Glexan_127:
(Start: 8 @68745 has 94 MA's), (Start: 9 @68748 has 25 MA's), (Start: 10 @68757 has 8 MA's), (15, 68805), (17, 68874), (18, 68877),

Gene: Goku_123 Start: 68521, Stop: 68646, Start Num: 10
Candidate Starts for Goku_123:
(Start: 8 @68509 has 94 MA's), (Start: 9 @68512 has 25 MA's), (Start: 10 @68521 has 8 MA's), (15, 68569), (17, 68638), (18, 68641),

Gene: GoldenSpark_127 Start: 67594, Stop: 67731, Start Num: 8
Candidate Starts for GoldenSpark_127:
(Start: 8 @67594 has 94 MA's), (Start: 9 @67597 has 25 MA's), (Start: 10 @67606 has 8 MA's), (17, 67723), (18, 67726),

Gene: Goldilocks_127 Start: 68190, Stop: 68327, Start Num: 8
Candidate Starts for Goldilocks_127:
(Start: 8 @68190 has 94 MA's), (Start: 9 @68193 has 25 MA's), (Start: 10 @68202 has 8 MA's), (17, 68319), (18, 68322),

Gene: Gonephishing_168 Start: 89383, Stop: 89556, Start Num: 5
Candidate Starts for Gonephishing_168:
(Start: 5 @89383 has 11 MA's), (12, 89440), (14, 89455),

Gene: GooberAzure_125 Start: 67594, Stop: 67731, Start Num: 8
Candidate Starts for GooberAzure_125:
(Start: 8 @67594 has 94 MA's), (Start: 9 @67597 has 25 MA's), (Start: 10 @67606 has 8 MA's), (17, 67723), (18, 67726),

Gene: Greep_128 Start: 69166, Stop: 69303, Start Num: 8
Candidate Starts for Greep_128:
(Start: 8 @69166 has 94 MA's), (Start: 9 @69169 has 25 MA's), (Start: 10 @69178 has 8 MA's), (17, 69295), (18, 69298),

Gene: Halley_174 Start: 90604, Stop: 90774, Start Num: 4
Candidate Starts for Halley_174:
(Start: 4 @90604 has 28 MA's), (11, 90658), (12, 90661),

Gene: HanKaySha_123 Start: 67785, Stop: 67919, Start Num: 9
Candidate Starts for HanKaySha_123:
(Start: 8 @67782 has 94 MA's), (Start: 9 @67785 has 25 MA's), (Start: 10 @67794 has 8 MA's), (17, 67911), (18, 67914),

Gene: Hannaconda_166 Start: 91164, Stop: 91337, Start Num: 5
Candidate Starts for Hannaconda_166:
(Start: 5 @91164 has 11 MA's), (12, 91221), (14, 91236),

Gene: Harella_129 Start: 69261, Stop: 69398, Start Num: 8
Candidate Starts for Harella_129:
(Start: 8 @69261 has 94 MA's), (Start: 9 @69264 has 25 MA's), (Start: 10 @69273 has 8 MA's), (15, 69321), (17, 69390), (18, 69393),

Gene: Henry_125 Start: 68546, Stop: 68683, Start Num: 8

Candidate Starts for Henry_125:

(Start: 8 @68546 has 94 MA's), (Start: 9 @68549 has 25 MA's), (Start: 10 @68558 has 8 MA's), (15, 68606), (17, 68675), (18, 68678),

Gene: Hidrated_166 Start: 92372, Stop: 92488, Start Num: 11

Candidate Starts for Hidrated_166:

(Start: 4 @92318 has 28 MA's), (11, 92372), (12, 92375),

Gene: Highbury_119 Start: 65939, Stop: 66076, Start Num: 8

Candidate Starts for Highbury_119:

(Start: 8 @65939 has 94 MA's), (Start: 9 @65942 has 25 MA's), (Start: 10 @65951 has 8 MA's), (15, 65999), (17, 66068), (18, 66071),

Gene: HokkenD_168 Start: 92385, Stop: 92555, Start Num: 4

Candidate Starts for HokkenD_168:

(Start: 4 @92385 has 28 MA's), (11, 92439), (12, 92442),

Gene: Holt_129 Start: 68591, Stop: 68725, Start Num: 9

Candidate Starts for Holt_129:

(Start: 8 @68588 has 94 MA's), (Start: 9 @68591 has 25 MA's), (Start: 10 @68600 has 8 MA's), (17, 68717), (18, 68720),

Gene: Hoonter_126 Start: 68087, Stop: 68224, Start Num: 8

Candidate Starts for Hoonter_126:

(Start: 8 @68087 has 94 MA's), (Start: 9 @68090 has 25 MA's), (Start: 10 @68099 has 8 MA's), (15, 68147), (17, 68216), (18, 68219),

Gene: Hokey_123 Start: 68393, Stop: 68530, Start Num: 8

Candidate Starts for Hokey_123:

(Start: 8 @68393 has 94 MA's), (Start: 9 @68396 has 25 MA's), (Start: 10 @68405 has 8 MA's), (17, 68522), (18, 68525),

Gene: HufflyPuff_125 Start: 68702, Stop: 68839, Start Num: 8

Candidate Starts for HufflyPuff_125:

(Start: 8 @68702 has 94 MA's), (Start: 9 @68705 has 25 MA's), (Start: 10 @68714 has 8 MA's), (17, 68831), (18, 68834),

Gene: Hughesyang_172 Start: 91086, Stop: 91256, Start Num: 4

Candidate Starts for Hughesyang_172:

(Start: 4 @91086 has 28 MA's), (11, 91140), (12, 91143),

Gene: IHOP_126 Start: 68276, Stop: 68401, Start Num: 10

Candidate Starts for IHOP_126:

(Start: 8 @68264 has 94 MA's), (Start: 9 @68267 has 25 MA's), (Start: 10 @68276 has 8 MA's), (15, 68324), (17, 68393), (18, 68396),

Gene: Icee_128 Start: 68139, Stop: 68276, Start Num: 8

Candidate Starts for Icee_128:

(Start: 8 @68139 has 94 MA's), (Start: 9 @68142 has 25 MA's), (Start: 10 @68151 has 8 MA's), (15, 68199), (17, 68268), (18, 68271),

Gene: Inca_123 Start: 66348, Stop: 66485, Start Num: 8

Candidate Starts for Inca_123:

(Start: 8 @66348 has 94 MA's), (Start: 9 @66351 has 25 MA's), (Start: 10 @66360 has 8 MA's), (17, 66477), (18, 66480),

Gene: JeTaime_122 Start: 67800, Stop: 67937, Start Num: 8

Candidate Starts for JeTaime_122:

(Start: 8 @67800 has 94 MA's), (Start: 9 @67803 has 25 MA's), (Start: 10 @67812 has 8 MA's), (15, 67860), (17, 67929), (18, 67932),

Gene: JuicyJay_168 Start: 92032, Stop: 92202, Start Num: 4

Candidate Starts for JuicyJay_168:

(Start: 4 @92032 has 28 MA's), (11, 92086), (12, 92089),

Gene: Kalah2_170 Start: 92370, Stop: 92540, Start Num: 4

Candidate Starts for Kalah2_170:

(Start: 4 @92370 has 28 MA's), (11, 92424), (12, 92427),

Gene: Kanye_120 Start: 67843, Stop: 67980, Start Num: 8

Candidate Starts for Kanye_120:

(Start: 8 @67843 has 94 MA's), (Start: 9 @67846 has 25 MA's), (Start: 10 @67855 has 8 MA's), (15, 67903), (17, 67972), (18, 67975),

Gene: KashFlow_171 Start: 90977, Stop: 91150, Start Num: 5

Candidate Starts for KashFlow_171:

(Start: 5 @90977 has 11 MA's), (12, 91034), (14, 91049),

Gene: Kimchi_128 Start: 68315, Stop: 68452, Start Num: 8

Candidate Starts for Kimchi_128:

(Start: 8 @68315 has 94 MA's), (Start: 9 @68318 has 25 MA's), (Start: 10 @68327 has 8 MA's), (17, 68444), (18, 68447),

Gene: Klein_177 Start: 90813, Stop: 90983, Start Num: 4

Candidate Starts for Klein_177:

(Start: 4 @90813 has 28 MA's), (11, 90867), (12, 90870),

Gene: Lilac_124 Start: 68536, Stop: 68673, Start Num: 8

Candidate Starts for Lilac_124:

(Start: 8 @68536 has 94 MA's), (Start: 9 @68539 has 25 MA's), (Start: 10 @68548 has 8 MA's), (15, 68596), (17, 68665), (18, 68668),

Gene: Lilizi_123 Start: 67822, Stop: 67959, Start Num: 8

Candidate Starts for Lilizi_123:

(Start: 8 @67822 has 94 MA's), (Start: 9 @67825 has 25 MA's), (Start: 10 @67834 has 8 MA's), (17, 67951), (18, 67954),

Gene: Lilpickle_124 Start: 67824, Stop: 67961, Start Num: 8

Candidate Starts for Lilpickle_124:

(Start: 8 @67824 has 94 MA's), (Start: 9 @67827 has 25 MA's), (Start: 10 @67836 has 8 MA's), (17, 67953), (18, 67956),

Gene: Liveloughbron_124 Start: 68835, Stop: 68972, Start Num: 8

Candidate Starts for Liveloughbron_124:

(Start: 8 @68835 has 94 MA's), (Start: 9 @68838 has 25 MA's), (Start: 10 @68847 has 8 MA's), (15, 68895), (17, 68964), (18, 68967),

Gene: Lucky2013_170 Start: 87637, Stop: 87810, Start Num: 5
Candidate Starts for Lucky2013_170:
(Start: 5 @87637 has 11 MA's), (12, 87694), (14, 87709),

Gene: MISSy_124 Start: 68519, Stop: 68656, Start Num: 8
Candidate Starts for MISSy_124:
(Start: 8 @68519 has 94 MA's), (Start: 9 @68522 has 25 MA's), (Start: 10 @68531 has 8 MA's), (17, 68648), (18, 68651),

Gene: MPhalcon_124 Start: 67937, Stop: 68074, Start Num: 8
Candidate Starts for MPhalcon_124:
(Start: 8 @67937 has 94 MA's), (Start: 9 @67940 has 25 MA's), (Start: 10 @67949 has 8 MA's), (15, 67997), (17, 68066), (18, 68069),

Gene: MadamMonkfish_124 Start: 67834, Stop: 67971, Start Num: 8
Candidate Starts for MadamMonkfish_124:
(Start: 8 @67834 has 94 MA's), (Start: 9 @67837 has 25 MA's), (Start: 10 @67846 has 8 MA's), (15, 67894), (17, 67963), (18, 67966),

Gene: Manda_124 Start: 67974, Stop: 68111, Start Num: 8
Candidate Starts for Manda_124:
(Start: 8 @67974 has 94 MA's), (Start: 9 @67977 has 25 MA's), (Start: 10 @67986 has 8 MA's), (17, 68103), (18, 68106),

Gene: Marleymoo_160 Start: 89222, Stop: 89392, Start Num: 4
Candidate Starts for Marleymoo_160:
(Start: 4 @89222 has 28 MA's), (11, 89276), (12, 89279),

Gene: Marshmallow_125 Start: 68953, Stop: 69090, Start Num: 8
Candidate Starts for Marshmallow_125:
(Start: 8 @68953 has 94 MA's), (Start: 9 @68956 has 25 MA's), (Start: 10 @68965 has 8 MA's), (15, 69013), (17, 69082), (18, 69085),

Gene: Maxxinista_125 Start: 67721, Stop: 67858, Start Num: 8
Candidate Starts for Maxxinista_125:
(Start: 8 @67721 has 94 MA's), (Start: 9 @67724 has 25 MA's), (Start: 10 @67733 has 8 MA's), (17, 67850), (18, 67853),

Gene: MiaZeal_177 Start: 88784, Stop: 88957, Start Num: 5
Candidate Starts for MiaZeal_177:
(Start: 5 @88784 has 11 MA's), (12, 88841), (14, 88856),

Gene: Mindy_126 Start: 68112, Stop: 68249, Start Num: 8
Candidate Starts for Mindy_126:
(Start: 8 @68112 has 94 MA's), (Start: 9 @68115 has 25 MA's), (Start: 10 @68124 has 8 MA's), (15, 68172), (17, 68241), (18, 68244),

Gene: Minerva_173 Start: 90450, Stop: 90620, Start Num: 4
Candidate Starts for Minerva_173:
(Start: 4 @90450 has 28 MA's), (11, 90504), (12, 90507),

Gene: Miniwave_117 Start: 67433, Stop: 67567, Start Num: 9

Candidate Starts for Miniwave_117:

(Start: 8 @67430 has 94 MA's), (Start: 9 @67433 has 25 MA's), (Start: 10 @67442 has 8 MA's), (17, 67559), (18, 67562),

Gene: Misfit_124 Start: 69033, Stop: 69170, Start Num: 8

Candidate Starts for Misfit_124:

(Start: 8 @69033 has 94 MA's), (Start: 9 @69036 has 25 MA's), (Start: 10 @69045 has 8 MA's), (17, 69162), (18, 69165),

Gene: Moldemort_125 Start: 67705, Stop: 67839, Start Num: 9

Candidate Starts for Moldemort_125:

(Start: 8 @67702 has 94 MA's), (Start: 9 @67705 has 25 MA's), (Start: 10 @67714 has 8 MA's), (17, 67831), (18, 67834),

Gene: MollyToe_117 Start: 65810, Stop: 65947, Start Num: 8

Candidate Starts for MollyToe_117:

(Start: 8 @65810 has 94 MA's), (Start: 9 @65813 has 25 MA's), (Start: 10 @65822 has 8 MA's), (15, 65870), (17, 65939), (18, 65942),

Gene: Mosby_120 Start: 67397, Stop: 67534, Start Num: 8

Candidate Starts for Mosby_120:

(Start: 8 @67397 has 94 MA's), (Start: 9 @67400 has 25 MA's), (Start: 10 @67409 has 8 MA's), (17, 67526), (18, 67529),

Gene: Murica_127 Start: 69736, Stop: 69873, Start Num: 8

Candidate Starts for Murica_127:

(Start: 8 @69736 has 94 MA's), (Start: 9 @69739 has 25 MA's), (Start: 10 @69748 has 8 MA's), (15, 69796), (17, 69865), (18, 69868),

Gene: Murphy_122 Start: 68094, Stop: 68231, Start Num: 8

Candidate Starts for Murphy_122:

(Start: 8 @68094 has 94 MA's), (Start: 9 @68097 has 25 MA's), (Start: 10 @68106 has 8 MA's), (15, 68154), (17, 68223), (18, 68226),

Gene: Myrale_124 Start: 68609, Stop: 68746, Start Num: 8

Candidate Starts for Myrale_124:

(Start: 8 @68609 has 94 MA's), (Start: 9 @68612 has 25 MA's), (Start: 10 @68621 has 8 MA's), (15, 68669), (17, 68738), (18, 68741),

Gene: Nala_125 Start: 68458, Stop: 68583, Start Num: 10

Candidate Starts for Nala_125:

(Start: 8 @68446 has 94 MA's), (Start: 9 @68449 has 25 MA's), (Start: 10 @68458 has 8 MA's), (15, 68506), (17, 68575), (18, 68578),

Gene: Nebkiss_138 Start: 71918, Stop: 72097, Start Num: 3

Candidate Starts for Nebkiss_138:

(2, 71909), (Start: 3 @71918 has 2 MA's), (6, 71939), (12, 71981), (17, 72089),

Gene: Nekros_173 Start: 91782, Stop: 91955, Start Num: 5

Candidate Starts for Nekros_173:

(Start: 5 @91782 has 11 MA's), (12, 91839), (14, 91854),

Gene: NelitzaMV_120 Start: 66419, Stop: 66556, Start Num: 8

Candidate Starts for NelitzaMV_120:

(Start: 8 @66419 has 94 MA's), (Start: 9 @66422 has 25 MA's), (Start: 10 @66431 has 8 MA's), (17, 66548), (18, 66551),

Gene: Nibley_167 Start: 87731, Stop: 87904, Start Num: 5

Candidate Starts for Nibley_167:

(Start: 5 @87731 has 11 MA's), (12, 87788), (14, 87803),

Gene: NihilNomen_175 Start: 90158, Stop: 90328, Start Num: 4

Candidate Starts for NihilNomen_175:

(Start: 4 @90158 has 28 MA's), (11, 90212), (12, 90215),

Gene: Nimrod_124 Start: 68660, Stop: 68797, Start Num: 8

Candidate Starts for Nimrod_124:

(Start: 8 @68660 has 94 MA's), (Start: 9 @68663 has 25 MA's), (Start: 10 @68672 has 8 MA's), (17, 68789), (18, 68792),

Gene: NoSleep_123 Start: 67266, Stop: 67391, Start Num: 10

Candidate Starts for NoSleep_123:

(Start: 8 @67254 has 94 MA's), (Start: 9 @67257 has 25 MA's), (Start: 10 @67266 has 8 MA's), (15, 67314), (17, 67383), (18, 67386),

Gene: NonchalantPear_123 Start: 66690, Stop: 66824, Start Num: 9

Candidate Starts for NonchalantPear_123:

(Start: 8 @66687 has 94 MA's), (Start: 9 @66690 has 25 MA's), (Start: 10 @66699 has 8 MA's), (17, 66816), (18, 66819),

Gene: Odette_177 Start: 92839, Stop: 93009, Start Num: 4

Candidate Starts for Odette_177:

(Start: 4 @92839 has 28 MA's), (11, 92893), (12, 92896),

Gene: Omega_183 Start: 93358, Stop: 93531, Start Num: 5

Candidate Starts for Omega_183:

(Start: 5 @93358 has 11 MA's), (12, 93415), (14, 93430),

Gene: Optimus_172 Start: 91365, Stop: 91535, Start Num: 4

Candidate Starts for Optimus_172:

(Start: 4 @91365 has 28 MA's), (11, 91419), (12, 91422),

Gene: OrionPax_120 Start: 67327, Stop: 67464, Start Num: 8

Candidate Starts for OrionPax_120:

(Start: 8 @67327 has 94 MA's), (Start: 9 @67330 has 25 MA's), (Start: 10 @67339 has 8 MA's), (15, 67387), (17, 67456), (18, 67459),

Gene: PaddyBaddy_122 Start: 67445, Stop: 67582, Start Num: 8

Candidate Starts for PaddyBaddy_122:

(Start: 8 @67445 has 94 MA's), (Start: 9 @67448 has 25 MA's), (Start: 10 @67457 has 8 MA's), (17, 67574), (18, 67577),

Gene: Palpatine_124 Start: 68734, Stop: 68868, Start Num: 9

Candidate Starts for Palpatine_124:

(Start: 8 @68731 has 94 MA's), (Start: 9 @68734 has 25 MA's), (Start: 10 @68743 has 8 MA's), (17, 68860), (18, 68863),

Gene: Paperbeatsrock_122 Start: 68108, Stop: 68245, Start Num: 8
Candidate Starts for Paperbeatsrock_122:
(Start: 8 @68108 has 94 MA's), (Start: 9 @68111 has 25 MA's), (Start: 10 @68120 has 8 MA's), (17, 68237), (18, 68240),

Gene: Pat3_123 Start: 67606, Stop: 67743, Start Num: 8
Candidate Starts for Pat3_123:
(Start: 8 @67606 has 94 MA's), (Start: 9 @67609 has 25 MA's), (Start: 10 @67618 has 8 MA's), (15, 67666), (17, 67735), (18, 67738),

Gene: Petra64142_126 Start: 68576, Stop: 68713, Start Num: 8
Candidate Starts for Petra64142_126:
(Start: 8 @68576 has 94 MA's), (Start: 9 @68579 has 25 MA's), (Start: 10 @68588 has 8 MA's), (17, 68705), (18, 68708),

Gene: Phaja_126 Start: 68281, Stop: 68406, Start Num: 10
Candidate Starts for Phaja_126:
(Start: 8 @68269 has 94 MA's), (Start: 9 @68272 has 25 MA's), (Start: 10 @68281 has 8 MA's), (15, 68329), (17, 68398), (18, 68401),

Gene: PhatBacter_126 Start: 68476, Stop: 68613, Start Num: 8
Candidate Starts for PhatBacter_126:
(Start: 8 @68476 has 94 MA's), (Start: 9 @68479 has 25 MA's), (Start: 10 @68488 has 8 MA's), (17, 68605), (18, 68608),

Gene: Phaux_125 Start: 69036, Stop: 69173, Start Num: 8
Candidate Starts for Phaux_125:
(Start: 8 @69036 has 94 MA's), (Start: 9 @69039 has 25 MA's), (Start: 10 @69048 has 8 MA's), (15, 69096), (17, 69165), (18, 69168),

Gene: Phoebus_174 Start: 93845, Stop: 94015, Start Num: 4
Candidate Starts for Phoebus_174:
(Start: 4 @93845 has 28 MA's), (11, 93899), (12, 93902),

Gene: Phrux_119 Start: 67114, Stop: 67251, Start Num: 8
Candidate Starts for Phrux_119:
(Start: 8 @67114 has 94 MA's), (Start: 9 @67117 has 25 MA's), (Start: 10 @67126 has 8 MA's), (17, 67243), (18, 67246),

Gene: Policronamos_126 Start: 68743, Stop: 68877, Start Num: 9
Candidate Starts for Policronamos_126:
(Start: 8 @68740 has 94 MA's), (Start: 9 @68743 has 25 MA's), (Start: 10 @68752 has 8 MA's), (15, 68800), (17, 68869), (18, 68872),

Gene: Porcelain_174 Start: 88583, Stop: 88756, Start Num: 5
Candidate Starts for Porcelain_174:
(Start: 5 @88583 has 11 MA's), (12, 88640), (14, 88655),

Gene: Porky_123 Start: 68028, Stop: 68165, Start Num: 8
Candidate Starts for Porky_123:
(Start: 8 @68028 has 94 MA's), (Start: 9 @68031 has 25 MA's), (Start: 10 @68040 has 8 MA's), (15, 68088), (17, 68157), (18, 68160),

Gene: Pound_167 Start: 89894, Stop: 90064, Start Num: 4

Candidate Starts for Pound_167:

(Start: 4 @89894 has 28 MA's), (11, 89948), (12, 89951),

Gene: Ptowny_118 Start: 66160, Stop: 66285, Start Num: 10

Candidate Starts for Ptowny_118:

(Start: 8 @66148 has 94 MA's), (Start: 9 @66151 has 25 MA's), (Start: 10 @66160 has 8 MA's), (15, 66208), (17, 66277), (18, 66280),

Gene: Pumpkin_124 Start: 67454, Stop: 67591, Start Num: 8

Candidate Starts for Pumpkin_124:

(Start: 8 @67454 has 94 MA's), (Start: 9 @67457 has 25 MA's), (Start: 10 @67466 has 8 MA's), (15, 67514), (17, 67583), (18, 67586),

Gene: Quallification_124 Start: 68522, Stop: 68659, Start Num: 8

Candidate Starts for Quallification_124:

(Start: 8 @68522 has 94 MA's), (Start: 9 @68525 has 25 MA's), (Start: 10 @68534 has 8 MA's), (15, 68582), (17, 68651), (18, 68654),

Gene: Rakim_125 Start: 67954, Stop: 68079, Start Num: 10

Candidate Starts for Rakim_125:

(Start: 8 @67942 has 94 MA's), (Start: 9 @67945 has 25 MA's), (Start: 10 @67954 has 8 MA's), (15, 68002), (17, 68071), (18, 68074),

Gene: Rearden_173 Start: 89072, Stop: 89245, Start Num: 5

Candidate Starts for Rearden_173:

(Start: 5 @89072 has 11 MA's), (12, 89129), (14, 89144),

Gene: Redno2_167 Start: 87958, Stop: 88128, Start Num: 4

Candidate Starts for Redno2_167:

(Start: 4 @87958 has 28 MA's), (11, 88012), (12, 88015),

Gene: Rimmer_121 Start: 67916, Stop: 68050, Start Num: 9

Candidate Starts for Rimmer_121:

(Start: 8 @67913 has 94 MA's), (Start: 9 @67916 has 25 MA's), (Start: 10 @67925 has 8 MA's), (15, 67973), (17, 68042), (18, 68045),

Gene: RiverMonster_122 Start: 68009, Stop: 68146, Start Num: 8

Candidate Starts for RiverMonster_122:

(Start: 8 @68009 has 94 MA's), (Start: 9 @68012 has 25 MA's), (Start: 10 @68021 has 8 MA's), (17, 68138), (18, 68141),

Gene: Saints25_119 Start: 65939, Stop: 66076, Start Num: 8

Candidate Starts for Saints25_119:

(Start: 8 @65939 has 94 MA's), (Start: 9 @65942 has 25 MA's), (Start: 10 @65951 has 8 MA's), (15, 65999), (17, 66068), (18, 66071),

Gene: Sassay_118 Start: 66359, Stop: 66496, Start Num: 8

Candidate Starts for Sassay_118:

(Start: 8 @66359 has 94 MA's), (Start: 9 @66362 has 25 MA's), (Start: 10 @66371 has 8 MA's), (17, 66488), (18, 66491),

Gene: Schatzie_168 Start: 90893, Stop: 91063, Start Num: 4

Candidate Starts for Schatzie_168:

(Start: 4 @90893 has 28 MA's), (11, 90947), (12, 90950),

Gene: Shaboozey_172 Start: 88175, Stop: 88348, Start Num: 5

Candidate Starts for Shaboozey_172:

(Start: 5 @88175 has 11 MA's), (12, 88232), (14, 88247),

Gene: ShamWow_124 Start: 68825, Stop: 68962, Start Num: 8

Candidate Starts for ShamWow_124:

(Start: 8 @68825 has 94 MA's), (Start: 9 @68828 has 25 MA's), (Start: 10 @68837 has 8 MA's), (15, 68885), (17, 68954), (18, 68957),

Gene: ShereKhan_121 Start: 68768, Stop: 68905, Start Num: 8

Candidate Starts for ShereKhan_121:

(Start: 8 @68768 has 94 MA's), (Start: 9 @68771 has 25 MA's), (Start: 10 @68780 has 8 MA's), (15, 68828), (17, 68897), (18, 68900),

Gene: Simpliphy_121 Start: 67580, Stop: 67717, Start Num: 8

Candidate Starts for Simpliphy_121:

(Start: 8 @67580 has 94 MA's), (Start: 9 @67583 has 25 MA's), (Start: 10 @67592 has 8 MA's), (17, 67709), (18, 67712),

Gene: SirDuracell_128 Start: 68200, Stop: 68337, Start Num: 8

Candidate Starts for SirDuracell_128:

(Start: 8 @68200 has 94 MA's), (Start: 9 @68203 has 25 MA's), (Start: 10 @68212 has 8 MA's), (15, 68260), (17, 68329), (18, 68332),

Gene: SophKB_122 Start: 67990, Stop: 68127, Start Num: 8

Candidate Starts for SophKB_122:

(Start: 8 @67990 has 94 MA's), (Start: 9 @67993 has 25 MA's), (Start: 10 @68002 has 8 MA's), (15, 68050), (17, 68119), (18, 68122),

Gene: Sotrice96_128 Start: 68892, Stop: 69029, Start Num: 8

Candidate Starts for Sotrice96_128:

(Start: 8 @68892 has 94 MA's), (Start: 9 @68895 has 25 MA's), (Start: 10 @68904 has 8 MA's), (15, 68952), (17, 69021), (18, 69024),

Gene: Stank_126 Start: 68390, Stop: 68524, Start Num: 9

Candidate Starts for Stank_126:

(Start: 8 @68387 has 94 MA's), (Start: 9 @68390 has 25 MA's), (Start: 10 @68399 has 8 MA's), (17, 68516), (18, 68519),

Gene: Stark_122 Start: 67893, Stop: 68030, Start Num: 8

Candidate Starts for Stark_122:

(Start: 8 @67893 has 94 MA's), (Start: 9 @67896 has 25 MA's), (Start: 10 @67905 has 8 MA's), (17, 68022), (18, 68025),

Gene: StellaBean_121 Start: 68190, Stop: 68327, Start Num: 8

Candidate Starts for StellaBean_121:

(Start: 8 @68190 has 94 MA's), (Start: 9 @68193 has 25 MA's), (Start: 10 @68202 has 8 MA's), (17, 68319), (18, 68322),

Gene: Stellammi_170 Start: 77003, Stop: 77170, Start Num: 5
Candidate Starts for Stellammi_170:
(1, 76946), (Start: 5 @77003 has 11 MA's), (7, 77036), (12, 77066), (18, 77165),

Gene: StolenFromERC_125 Start: 67735, Stop: 67869, Start Num: 9
Candidate Starts for StolenFromERC_125:
(Start: 8 @67732 has 94 MA's), (Start: 9 @67735 has 25 MA's), (Start: 10 @67744 has 8 MA's), (15, 67792), (17, 67861), (18, 67864),

Gene: StormChicken_125 Start: 68657, Stop: 68794, Start Num: 8
Candidate Starts for StormChicken_125:
(Start: 8 @68657 has 94 MA's), (Start: 9 @68660 has 25 MA's), (Start: 10 @68669 has 8 MA's), (15, 68717), (17, 68786), (18, 68789),

Gene: Superphikiman_172 Start: 88262, Stop: 88435, Start Num: 5
Candidate Starts for Superphikiman_172:
(Start: 5 @88262 has 11 MA's), (12, 88319), (14, 88334),

Gene: TBrady12_127 Start: 67824, Stop: 67961, Start Num: 8
Candidate Starts for TBrady12_127:
(Start: 8 @67824 has 94 MA's), (Start: 9 @67827 has 25 MA's), (Start: 10 @67836 has 8 MA's), (15, 67884), (17, 67953), (18, 67956),

Gene: Tarkin_122 Start: 68633, Stop: 68770, Start Num: 8
Candidate Starts for Tarkin_122:
(Start: 8 @68633 has 94 MA's), (Start: 9 @68636 has 25 MA's), (Start: 10 @68645 has 8 MA's), (15, 68693), (17, 68762), (18, 68765),

Gene: TeamEdward_123 Start: 68274, Stop: 68411, Start Num: 8
Candidate Starts for TeamEdward_123:
(Start: 8 @68274 has 94 MA's), (Start: 9 @68277 has 25 MA's), (Start: 10 @68286 has 8 MA's), (17, 68403), (18, 68406),

Gene: TeardropMSU_123 Start: 67994, Stop: 68131, Start Num: 8
Candidate Starts for TeardropMSU_123:
(Start: 8 @67994 has 94 MA's), (Start: 9 @67997 has 25 MA's), (Start: 10 @68006 has 8 MA's), (15, 68054), (17, 68123), (18, 68126),

Gene: Terminus_126 Start: 69033, Stop: 69170, Start Num: 8
Candidate Starts for Terminus_126:
(Start: 8 @69033 has 94 MA's), (Start: 9 @69036 has 25 MA's), (Start: 10 @69045 has 8 MA's), (17, 69162), (18, 69165),

Gene: Thibault_157 Start: 87773, Stop: 87943, Start Num: 4
Candidate Starts for Thibault_157:
(Start: 4 @87773 has 28 MA's), (11, 87827), (12, 87830),

Gene: ThreeRngTarjay_170 Start: 91885, Stop: 92058, Start Num: 5
Candidate Starts for ThreeRngTarjay_170:
(Start: 5 @91885 has 11 MA's), (12, 91942), (14, 91957),

Gene: Thresher_124 Start: 68676, Stop: 68810, Start Num: 9
Candidate Starts for Thresher_124:

(Start: 8 @68673 has 94 MA's), (Start: 9 @68676 has 25 MA's), (Start: 10 @68685 has 8 MA's), (17, 68802), (18, 68805),

Gene: Tomaszewski_118 Start: 67571, Stop: 67708, Start Num: 8

Candidate Starts for Tomaszewski_118:

(Start: 8 @67571 has 94 MA's), (Start: 9 @67574 has 25 MA's), (Start: 10 @67583 has 8 MA's), (17, 67700), (18, 67703),

Gene: Toto_122 Start: 68825, Stop: 68962, Start Num: 8

Candidate Starts for Toto_122:

(Start: 8 @68825 has 94 MA's), (Start: 9 @68828 has 25 MA's), (Start: 10 @68837 has 8 MA's), (15, 68885), (17, 68954), (18, 68957),

Gene: Traaww1_120 Start: 67374, Stop: 67511, Start Num: 8

Candidate Starts for Traaww1_120:

(Start: 8 @67374 has 94 MA's), (Start: 9 @67377 has 25 MA's), (Start: 10 @67386 has 8 MA's), (15, 67434), (17, 67503), (18, 67506),

Gene: Tuco_128 Start: 70053, Stop: 70190, Start Num: 8

Candidate Starts for Tuco_128:

(Start: 8 @70053 has 94 MA's), (Start: 9 @70056 has 25 MA's), (Start: 10 @70065 has 8 MA's), (15, 70113), (17, 70182), (18, 70185),

Gene: Ukulele_118 Start: 67390, Stop: 67527, Start Num: 8

Candidate Starts for Ukulele_118:

(Start: 8 @67390 has 94 MA's), (Start: 9 @67393 has 25 MA's), (Start: 10 @67402 has 8 MA's), (17, 67519), (18, 67522),

Gene: Wanda_171 Start: 88462, Stop: 88632, Start Num: 4

Candidate Starts for Wanda_171:

(Start: 4 @88462 has 28 MA's), (11, 88516), (12, 88519),

Gene: Wiggin_126 Start: 67820, Stop: 67954, Start Num: 9

Candidate Starts for Wiggin_126:

(Start: 8 @67817 has 94 MA's), (Start: 9 @67820 has 25 MA's), (Start: 10 @67829 has 8 MA's), (17, 67946), (18, 67949),

Gene: Willez_119 Start: 66454, Stop: 66591, Start Num: 8

Candidate Starts for Willez_119:

(Start: 8 @66454 has 94 MA's), (Start: 9 @66457 has 25 MA's), (Start: 10 @66466 has 8 MA's), (15, 66514), (17, 66583), (18, 66586),

Gene: Xandras_123 Start: 67643, Stop: 67777, Start Num: 9

Candidate Starts for Xandras_123:

(Start: 8 @67640 has 94 MA's), (Start: 9 @67643 has 25 MA's), (Start: 10 @67652 has 8 MA's), (17, 67769), (18, 67772),

Gene: Xiaokay_169 Start: 91793, Stop: 91963, Start Num: 4

Candidate Starts for Xiaokay_169:

(Start: 4 @91793 has 28 MA's), (11, 91847), (12, 91850),

Gene: YassJohnny_120 Start: 66380, Stop: 66517, Start Num: 8

Candidate Starts for YassJohnny_120:

(Start: 8 @66380 has 94 MA's), (Start: 9 @66383 has 25 MA's), (Start: 10 @66392 has 8 MA's), (15, 66440), (17, 66509), (18, 66512),

Gene: Yeet_165 Start: 89746, Stop: 89916, Start Num: 4
Candidate Starts for Yeet_165:
(Start: 4 @89746 has 28 MA's), (11, 89800), (12, 89803),

Gene: Youngblood_127 Start: 68529, Stop: 68666, Start Num: 8
Candidate Starts for Youngblood_127:
(Start: 8 @68529 has 94 MA's), (Start: 9 @68532 has 25 MA's), (Start: 10 @68541 has 8 MA's), (15, 68589), (17, 68658), (18, 68661),

Gene: Zelink_166 Start: 90081, Stop: 90251, Start Num: 4
Candidate Starts for Zelink_166:
(Start: 4 @90081 has 28 MA's), (11, 90135), (12, 90138),

Gene: xkcd_127 Start: 68714, Stop: 68851, Start Num: 8
Candidate Starts for xkcd_127:
(Start: 8 @68714 has 94 MA's), (Start: 9 @68717 has 25 MA's), (Start: 10 @68726 has 8 MA's), (17, 68843), (18, 68846),