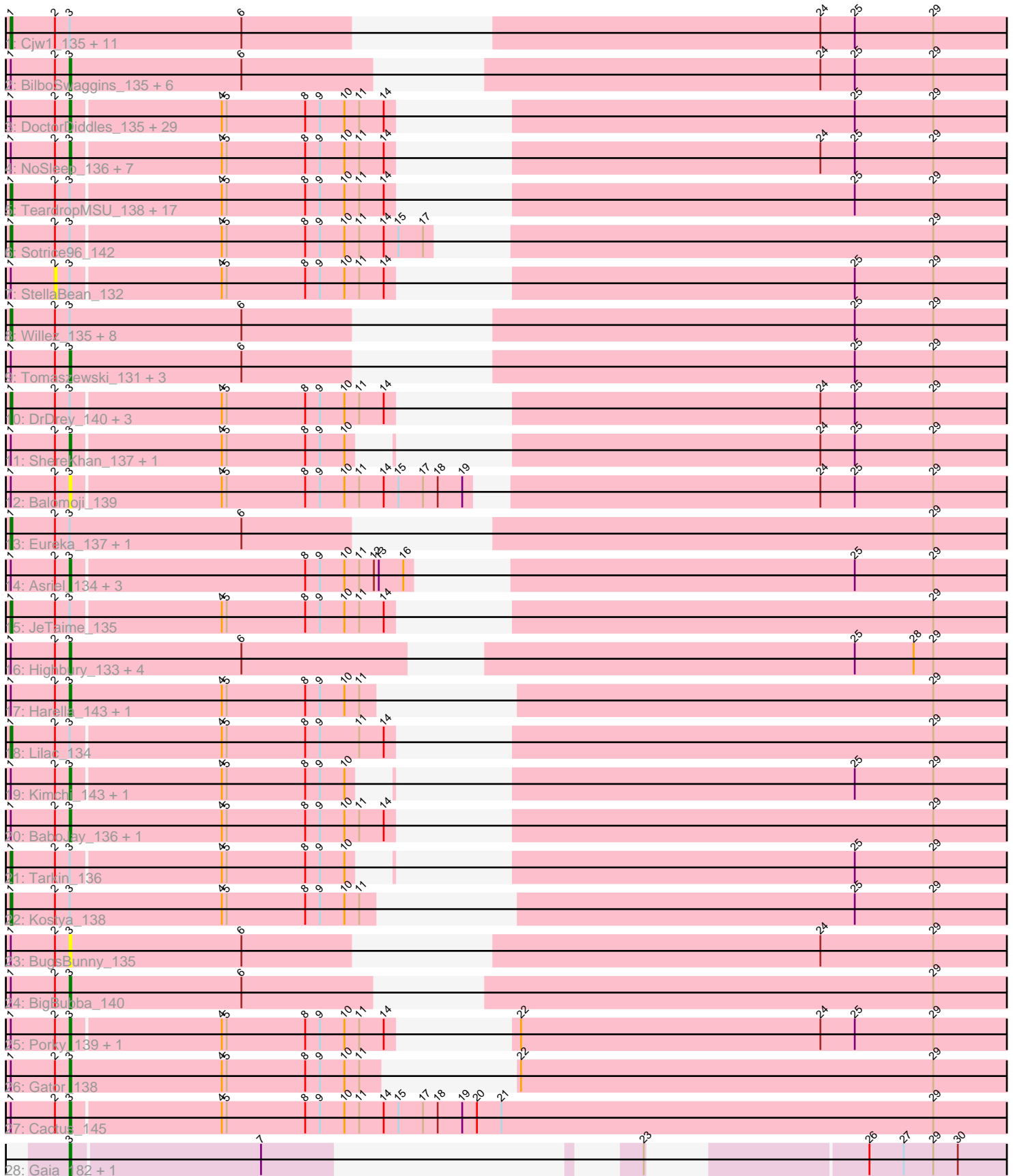


Pham 85157



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 85157 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85157 has 126 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Cjw1_135, Nala_139, Dumbo_138, Bask21_141, CrystalP_137, 244_138, Hopey_135, SirDuracell_140, Ukulele_132, Bruin_134, Stark_135, Pumpkin_137
- Track 2 : BilboSwaggins_135, IHOP_141, SophKB_135, Phaja_141, Petra64142_138, Maxxinista_139, Nimrod_136
- Track 3 : DoctorDiddles_135, OrionPax_133, StolenFromERC_140, Buck_138, Stank_141, MISSy_139, AmericanBeauty_145, BadStone_138, Marshmallow_138, Pat3_137, Holt_143, Bench_139, Filch_139, Palpatine_136, xkcd_141, Miniwave_131, RiverMonster_136, Adnama_142, Xandras_138, Gemini_143, ChotaBhai_141, Moldemort_140, HanKaySha_136, Hoonter_140, MadamMonkfish_137, Lilizi_138, GoldenSpark_142, Policronamos_140, Argent26_142, YassJohnny_133
- Track 4 : NoSleep_136, Command613_140, Daikon_140, Myrale_139, Thresher_139, Rimmer_134, Czystczon1_137, Inca_136
- Track 5 : TeardropMSU_138, Goldilocks_143, FireRed_140, Dusk_138, ABCat_138, HuffyPuff_139, Paperbeatsrock_135, Tuco_143, Wiggin_140, Phrux_133, GooberAzure_140, Phaux_139, Murphy_136, Murica_141, Pharsalus_135, PhatBacter_140, Easy2Say_139, Simpliphy_136
- Track 6 : Sotrice96_142
- Track 7 : StellaBean_132
- Track 8 : Willez_135, Contagion_133, Mosby_134, Misfit_137, Youngblood_141, Toto_134, Terminus_140, ShamWow_136, Sassay_132
- Track 9 : Tomaszewski_131, Cookies_139, Qualification_138, MPhalcon_138
- Track 10 : DrDrey_140, Henry_139, Elph10_135, Rakim_139
- Track 11 : ShereKhan_137, Mindy_141
- Track 12 : Balomoji_139
- Track 13 : Eureka_137, Goku_136
- Track 14 : Asriel_134, Barbarian_137, Flypotenuse_132, Traaww1_134
- Track 15 : JeTaime_135
- Track 16 : Highbury_133, ChosenOne_138, Lilpickle_137, Saints25_133, Elite2014_137
- Track 17 : Harella_143, Glexan_140
- Track 18 : Lilac_134
- Track 19 : Kimchi_143, Kanye_133
- Track 20 : BaboJay_136, TBrady12_142
- Track 21 : Tarkin_136
- Track 22 : Kostya_138
- Track 23 : BugsBunny_135

- Track 24 : BigBubba_140
- Track 25 : Porky_139, Emmina_138
- Track 26 : Gator_138
- Track 27 : Cactus_145
- Track 28 : Gaia_182, Nebkiss_177

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

The start number called the most often in the published annotations is 3, it was called in 67 of the 117 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adnama_142, AmericanBeauty_145, Argent26_142, Asriel_134, BaboJay_136, BadStone_138, Balomoji_139, Barbarian_137, Bench_139, BigBubba_140, BilboSwaggins_135, Buck_138, BugsBunny_135, Cactus_145, ChosenOne_138, ChotaBhai_141, Command613_140, Cookies_139, Czyszczo1_137, Daikon_140, DoctorDiddles_135, Elite2014_137, Emmina_138, Filch_139, Flypotenuse_132, Gaia_182, Gator_138, Gemini_143, Glexan_140, GoldenSpark_142, HanKaySha_136, Harella_143, Highbury_133, Holt_143, Hoonter_140, IHOP_141, Inca_136, Kanye_133, Kimchi_143, Lilizi_138, Lilpickle_137, MISSy_139, MPhalcon_138, MadamMonkfish_137, Marshmallow_138, Maxxinista_139, Mindy_141, Miniwave_131, Moldemort_140, Myrale_139, Nebkiss_177, Nimrod_136, NoSleep_136, OrionPax_133, Palpatine_136, Pat3_137, Petra64142_138, Phaja_141, Policronamos_140, Porky_139, Quallification_138, Rimmer_134, RiverMonster_136, Saints25_133, ShereKhan_137, SophKB_135, Stank_141, StolenFromERC_140, TBrady12_142, Thresher_139, Tomaszewski_131, Traaww1_134, Xandras_138, YassJohnny_133, xkcd_141,

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

- 244_138, ABCat_138, Bask21_141, Bruin_134, Cjw1_135, Contagion_133, CrystalP_137, DrDrey_140, Dumbo_138, Dusk_138, Easy2Say_139, Elph10_135, Eureka_137, FireRed_140, Goku_136, Goldilocks_143, GooberAzure_140, Henry_139, Hopey_135, HufflyPuff_139, JeTaime_135, Kostya_138, Lilac_134, Misfit_137, Mosby_134, Murica_141, Murphy_136, Nala_139, Paperbeatsrock_135, Pharsalus_135, PhatBacter_140, Phaux_139, Phrux_133, Pumpkin_137, Rakim_139, Sassay_132, ShamWow_136, Simpliphy_136, SirDuracell_140, Sotrice96_142, Stark_135, StellaBean_132, Tarkin_136, TeardropMSU_138, Terminus_140, Toto_134, Tuco_143, Ukulele_132, Wiggin_140, Willez_135, Youngblood_141,

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

-

Summary by start number:

Start 1:

- Found in 124 of 126 (98.4%) of genes in pham
- Manual Annotations of this start: 50 of 117
- Called 40.3% of time when present
- Phage (with cluster) where this start called: 244_138 (E), ABCat_138 (E), Bask21_141 (E), Bruin_134 (E), Cjw1_135 (E), Contagion_133 (E), CrystalP_137 (E),

DrDrey_140 (E), Dumbo_138 (E), Dusk_138 (E), Easy2Say_139 (E), Elph10_135 (E), Eureka_137 (E), FireRed_140 (E), Goku_136 (E), Goldilocks_143 (E), GooberAzure_140 (E), Henry_139 (E), Hopey_135 (E), HuffyPuff_139 (E), JeTaime_135 (E), Kostya_138 (E), Lilac_134 (E), Misfit_137 (E), Mosby_134 (E), Murica_141 (E), Murphy_136 (E), Nala_139 (E), Paperbeatsrock_135 (E), Pharsalus_135 (E), PhatBacter_140 (E), Phaux_139 (E), Phrux_133 (E), Pumpkin_137 (E), Rakim_139 (E), Sassay_132 (E), ShamWow_136 (E), Simpliphy_136 (E), SirDuracell_140 (E), Sotrice96_142 (E), Stark_135 (E), Tarkin_136 (E), TeardropMSU_138 (E), Terminus_140 (E), Toto_134 (E), Tuco_143 (E), Ukulele_132 (E), Wiggin_140 (E), Willez_135 (E), Youngblood_141 (E),

Start 2:

- Found in 124 of 126 (98.4%) of genes in pham
- No Manual Annotations of this start.
- Called 0.8% of time when present
- Phage (with cluster) where this start called: StellaBean_132 (E),

Start 3:

- Found in 126 of 126 (100.0%) of genes in pham
- Manual Annotations of this start: 67 of 117
- Called 59.5% of time when present
- Phage (with cluster) where this start called: Adnama_142 (E), AmericanBeauty_145 (E), Argent26_142 (E), Asriel_134 (E), BaboJay_136 (E), BadStone_138 (E), Balomoji_139 (E), Barbarian_137 (E), Bench_139 (E), BigBubba_140 (E), BilboSwaggins_135 (E), Buck_138 (E), BugsBunny_135 (E), Cactus_145 (E), ChosenOne_138 (E), ChotaBhai_141 (E), Command613_140 (E), Cookies_139 (E), Czystczon1_137 (E), Daikon_140 (E), DoctorDiddles_135 (E), Elite2014_137 (E), Emmina_138 (E), Filch_139 (E), Flypotenuse_132 (E), Gaia_182 (X), Gator_138 (E), Gemini_143 (E), Glexan_140 (E), GoldenSpark_142 (E), HanKaySha_136 (E), Harella_143 (E), Highbury_133 (E), Holt_143 (E), Hoonter_140 (E), IHOP_141 (E), Inca_136 (E), Kanye_133 (E), Kimchi_143 (E), Lilizi_138 (E), Lilpickle_137 (E), MISSy_139 (E), MPhalcon_138 (E), MadamMonkfish_137 (E), Marshmallow_138 (E), Maxxinista_139 (E), Mindy_141 (E), Miniwave_131 (E), Moldemort_140 (E), Myrale_139 (E), Nebkiss_177 (X), Nimrod_136 (E), NoSleep_136 (E), OrionPax_133 (E), Palpatine_136 (E), Pat3_137 (E), Petra64142_138 (E), Phaja_141 (E), Policronamos_140 (E), Porky_139 (E), Quallification_138 (E), Rimmer_134 (E), RiverMonster_136 (E), Saints25_133 (E), ShereKhan_137 (E), SophKB_135 (E), Stank_141 (E), StolenFromERC_140 (E), TBrady12_142 (E), Thresher_139 (E), Tomaszewski_131 (E), Traaww1_134 (E), Xandras_138 (E), YassJohnny_133 (E), xkcd_141 (E),

Summary by clusters:

There are 2 clusters represented in this pham: X, E,

Info for manual annotations of cluster E:

- Start number 1 was manually annotated 50 times for cluster E.
- Start number 3 was manually annotated 65 times for cluster E.

Info for manual annotations of cluster X:

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

Gene Information:

Gene: 244_138 Start: 72145, Stop: 71609, Start Num: 1

Candidate Starts for 244_138:

(Start: 1 @72145 has 50 MA's), (2, 72118), (Start: 3 @72109 has 67 MA's), (6, 72004), (24, 71737), (25, 71716), (29, 71668),

Gene: ABCat_138 Start: 73784, Stop: 73236, Start Num: 1

Candidate Starts for ABCat_138:

(Start: 1 @73784 has 50 MA's), (2, 73757), (Start: 3 @73748 has 67 MA's), (4, 73658), (5, 73655), (8, 73607), (9, 73598), (10, 73583), (11, 73574), (14, 73559), (25, 73343), (29, 73295),

Gene: Adnama_142 Start: 72785, Stop: 72273, Start Num: 3

Candidate Starts for Adnama_142:

(Start: 1 @72821 has 50 MA's), (2, 72794), (Start: 3 @72785 has 67 MA's), (4, 72695), (5, 72692), (8, 72644), (9, 72635), (10, 72620), (11, 72611), (14, 72596), (25, 72380), (29, 72332),

Gene: AmericanBeauty_145 Start: 72827, Stop: 72315, Start Num: 3

Candidate Starts for AmericanBeauty_145:

(Start: 1 @72863 has 50 MA's), (2, 72836), (Start: 3 @72827 has 67 MA's), (4, 72737), (5, 72734), (8, 72686), (9, 72677), (10, 72662), (11, 72653), (14, 72638), (25, 72422), (29, 72374),

Gene: Argent26_142 Start: 72709, Stop: 72197, Start Num: 3

Candidate Starts for Argent26_142:

(Start: 1 @72745 has 50 MA's), (2, 72718), (Start: 3 @72709 has 67 MA's), (4, 72619), (5, 72616), (8, 72568), (9, 72559), (10, 72544), (11, 72535), (14, 72520), (25, 72304), (29, 72256),

Gene: Asriel_134 Start: 71519, Stop: 70995, Start Num: 3

Candidate Starts for Asriel_134:

(Start: 1 @71555 has 50 MA's), (2, 71528), (Start: 3 @71519 has 67 MA's), (8, 71378), (9, 71369), (10, 71354), (11, 71345), (12, 71336), (13, 71333), (16, 71318), (25, 71102), (29, 71054),

Gene: BaboJay_136 Start: 73291, Stop: 72776, Start Num: 3

Candidate Starts for BaboJay_136:

(Start: 1 @73327 has 50 MA's), (2, 73300), (Start: 3 @73291 has 67 MA's), (4, 73198), (5, 73195), (8, 73147), (9, 73138), (10, 73123), (11, 73114), (14, 73099), (29, 72835),

Gene: BadStone_138 Start: 73296, Stop: 72784, Start Num: 3

Candidate Starts for BadStone_138:

(Start: 1 @73332 has 50 MA's), (2, 73305), (Start: 3 @73296 has 67 MA's), (4, 73206), (5, 73203), (8, 73155), (9, 73146), (10, 73131), (11, 73122), (14, 73107), (25, 72891), (29, 72843),

Gene: Balomoji_139 Start: 73344, Stop: 72784, Start Num: 3

Candidate Starts for Balomoji_139:

(Start: 1 @73380 has 50 MA's), (2, 73353), (Start: 3 @73344 has 67 MA's), (4, 73254), (5, 73251), (8, 73203), (9, 73194), (10, 73179), (11, 73170), (14, 73155), (15, 73146), (17, 73131), (18, 73122), (19, 73107), (24, 72912), (25, 72891), (29, 72843),

Gene: Barbarian_137 Start: 71519, Stop: 70995, Start Num: 3

Candidate Starts for Barbarian_137:

(Start: 1 @71555 has 50 MA's), (2, 71528), (Start: 3 @71519 has 67 MA's), (8, 71378), (9, 71369), (10, 71354), (11, 71345), (12, 71336), (13, 71333), (16, 71318), (25, 71102), (29, 71054),

Gene: Bask21_141 Start: 72248, Stop: 71673, Start Num: 1

Candidate Starts for Bask21_141:

(Start: 1 @72248 has 50 MA's), (2, 72221), (Start: 3 @72212 has 67 MA's), (6, 72107), (24, 71801), (25, 71780), (29, 71732),

Gene: Bench_139 Start: 73014, Stop: 72502, Start Num: 3

Candidate Starts for Bench_139:

(Start: 1 @73050 has 50 MA's), (2, 73023), (Start: 3 @73014 has 67 MA's), (4, 72924), (5, 72921), (8, 72873), (9, 72864), (10, 72849), (11, 72840), (14, 72825), (25, 72609), (29, 72561),

Gene: BigBubba_140 Start: 72225, Stop: 71707, Start Num: 3

Candidate Starts for BigBubba_140:

(Start: 1 @72261 has 50 MA's), (2, 72234), (Start: 3 @72225 has 67 MA's), (6, 72120), (29, 71766),

Gene: BilboSwaggins_135 Start: 73793, Stop: 73275, Start Num: 3

Candidate Starts for BilboSwaggins_135:

(Start: 1 @73829 has 50 MA's), (2, 73802), (Start: 3 @73793 has 67 MA's), (6, 73688), (24, 73403), (25, 73382), (29, 73334),

Gene: Bruin_134 Start: 71461, Stop: 70886, Start Num: 1

Candidate Starts for Bruin_134:

(Start: 1 @71461 has 50 MA's), (2, 71434), (Start: 3 @71425 has 67 MA's), (6, 71320), (24, 71014), (25, 70993), (29, 70945),

Gene: Buck_138 Start: 73670, Stop: 73155, Start Num: 3

Candidate Starts for Buck_138:

(Start: 1 @73706 has 50 MA's), (2, 73679), (Start: 3 @73670 has 67 MA's), (4, 73577), (5, 73574), (8, 73526), (9, 73517), (10, 73502), (11, 73493), (14, 73478), (25, 73262), (29, 73214),

Gene: BugsBunny_135 Start: 72701, Stop: 72201, Start Num: 3

Candidate Starts for BugsBunny_135:

(Start: 1 @72737 has 50 MA's), (2, 72710), (Start: 3 @72701 has 67 MA's), (6, 72596), (24, 72329), (29, 72260),

Gene: Cactus_145 Start: 72883, Stop: 72299, Start Num: 3

Candidate Starts for Cactus_145:

(Start: 1 @72919 has 50 MA's), (2, 72892), (Start: 3 @72883 has 67 MA's), (4, 72793), (5, 72790), (8, 72742), (9, 72733), (10, 72718), (11, 72709), (14, 72694), (15, 72685), (17, 72670), (18, 72661), (19, 72646), (20, 72637), (21, 72622), (29, 72358),

Gene: ChosenOne_138 Start: 72197, Stop: 71679, Start Num: 3

Candidate Starts for ChosenOne_138:

(Start: 1 @72233 has 50 MA's), (2, 72206), (Start: 3 @72197 has 67 MA's), (6, 72092), (25, 71786), (28, 71750), (29, 71738),

Gene: ChotaBhai_141 Start: 72976, Stop: 72464, Start Num: 3

Candidate Starts for ChotaBhai_141:

(Start: 1 @73012 has 50 MA's), (2, 72985), (Start: 3 @72976 has 67 MA's), (4, 72886), (5, 72883), (8, 72835), (9, 72826), (10, 72811), (11, 72802), (14, 72787), (25, 72571), (29, 72523),

Gene: Cjw1_135 Start: 73416, Stop: 72880, Start Num: 1

Candidate Starts for Cjw1_135:

(Start: 1 @73416 has 50 MA's), (2, 73389), (Start: 3 @73380 has 67 MA's), (6, 73275), (24, 73008), (25, 72987), (29, 72939),

Gene: Command613_140 Start: 73287, Stop: 72775, Start Num: 3

Candidate Starts for Command613_140:

(Start: 1 @73323 has 50 MA's), (2, 73296), (Start: 3 @73287 has 67 MA's), (4, 73197), (5, 73194), (8, 73146), (9, 73137), (10, 73122), (11, 73113), (14, 73098), (24, 72903), (25, 72882), (29, 72834),

Gene: Contagion_133 Start: 71784, Stop: 71248, Start Num: 1

Candidate Starts for Contagion_133:

(Start: 1 @71784 has 50 MA's), (2, 71757), (Start: 3 @71748 has 67 MA's), (6, 71643), (25, 71355), (29, 71307),

Gene: Cookies_139 Start: 73555, Stop: 73016, Start Num: 3

Candidate Starts for Cookies_139:

(Start: 1 @73591 has 50 MA's), (2, 73564), (Start: 3 @73555 has 67 MA's), (6, 73450), (25, 73123), (29, 73075),

Gene: CrystalP_137 Start: 73829, Stop: 73275, Start Num: 1

Candidate Starts for CrystalP_137:

(Start: 1 @73829 has 50 MA's), (2, 73802), (Start: 3 @73793 has 67 MA's), (6, 73688), (24, 73403), (25, 73382), (29, 73334),

Gene: Czyszczone1_137 Start: 72205, Stop: 71693, Start Num: 3

Candidate Starts for Czyszczone1_137:

(Start: 1 @72241 has 50 MA's), (2, 72214), (Start: 3 @72205 has 67 MA's), (4, 72115), (5, 72112), (8, 72064), (9, 72055), (10, 72040), (11, 72031), (14, 72016), (24, 71821), (25, 71800), (29, 71752),

Gene: Daikon_140 Start: 72592, Stop: 72080, Start Num: 3

Candidate Starts for Daikon_140:

(Start: 1 @72628 has 50 MA's), (2, 72601), (Start: 3 @72592 has 67 MA's), (4, 72502), (5, 72499), (8, 72451), (9, 72442), (10, 72427), (11, 72418), (14, 72403), (24, 72208), (25, 72187), (29, 72139),

Gene: DoctorDiddles_135 Start: 71713, Stop: 71201, Start Num: 3

Candidate Starts for DoctorDiddles_135:

(Start: 1 @71749 has 50 MA's), (2, 71722), (Start: 3 @71713 has 67 MA's), (4, 71623), (5, 71620), (8, 71572), (9, 71563), (10, 71548), (11, 71539), (14, 71524), (25, 71308), (29, 71260),

Gene: DrDrey_140 Start: 75021, Stop: 74473, Start Num: 1

Candidate Starts for DrDrey_140:

(Start: 1 @75021 has 50 MA's), (2, 74994), (Start: 3 @74985 has 67 MA's), (4, 74895), (5, 74892), (8, 74844), (9, 74835), (10, 74820), (11, 74811), (14, 74796), (24, 74601), (25, 74580), (29, 74532),

Gene: Dumbo_138 Start: 72464, Stop: 71889, Start Num: 1

Candidate Starts for Dumbo_138:

(Start: 1 @72464 has 50 MA's), (2, 72437), (Start: 3 @72428 has 67 MA's), (6, 72323), (24, 72017), (25, 71996), (29, 71948),

Gene: Dusk_138 Start: 72992, Stop: 72444, Start Num: 1

Candidate Starts for Dusk_138:

(Start: 1 @72992 has 50 MA's), (2, 72965), (Start: 3 @72956 has 67 MA's), (4, 72866), (5, 72863), (8, 72815), (9, 72806), (10, 72791), (11, 72782), (14, 72767), (25, 72551), (29, 72503),

Gene: Easy2Say_139 Start: 73211, Stop: 72663, Start Num: 1

Candidate Starts for Easy2Say_139:

(Start: 1 @73211 has 50 MA's), (2, 73184), (Start: 3 @73175 has 67 MA's), (4, 73085), (5, 73082), (8, 73034), (9, 73025), (10, 73010), (11, 73001), (14, 72986), (25, 72770), (29, 72722),

Gene: Elite2014_137 Start: 72196, Stop: 71678, Start Num: 3

Candidate Starts for Elite2014_137:

(Start: 1 @72232 has 50 MA's), (2, 72205), (Start: 3 @72196 has 67 MA's), (6, 72091), (25, 71785), (28, 71749), (29, 71737),

Gene: Elph10_135 Start: 71543, Stop: 70995, Start Num: 1

Candidate Starts for Elph10_135:

(Start: 1 @71543 has 50 MA's), (2, 71516), (Start: 3 @71507 has 67 MA's), (4, 71417), (5, 71414), (8, 71366), (9, 71357), (10, 71342), (11, 71333), (14, 71318), (24, 71123), (25, 71102), (29, 71054),

Gene: Emmina_138 Start: 72127, Stop: 71615, Start Num: 3

Candidate Starts for Emmina_138:

(Start: 1 @72163 has 50 MA's), (2, 72136), (Start: 3 @72127 has 67 MA's), (4, 72037), (5, 72034), (8, 71986), (9, 71977), (10, 71962), (11, 71953), (14, 71938), (22, 71926), (24, 71743), (25, 71722), (29, 71674),

Gene: Eureka_137 Start: 73079, Stop: 72543, Start Num: 1

Candidate Starts for Eureka_137:

(Start: 1 @73079 has 50 MA's), (2, 73052), (Start: 3 @73043 has 67 MA's), (6, 72938), (29, 72602),

Gene: Filch_139 Start: 72330, Stop: 71818, Start Num: 3

Candidate Starts for Filch_139:

(Start: 1 @72366 has 50 MA's), (2, 72339), (Start: 3 @72330 has 67 MA's), (4, 72240), (5, 72237), (8, 72189), (9, 72180), (10, 72165), (11, 72156), (14, 72141), (25, 71925), (29, 71877),

Gene: FireRed_140 Start: 73107, Stop: 72556, Start Num: 1

Candidate Starts for FireRed_140:

(Start: 1 @73107 has 50 MA's), (2, 73080), (Start: 3 @73071 has 67 MA's), (4, 72978), (5, 72975), (8, 72927), (9, 72918), (10, 72903), (11, 72894), (14, 72879), (25, 72663), (29, 72615),

Gene: Flypotenuse_132 Start: 72173, Stop: 71649, Start Num: 3

Candidate Starts for Flypotenuse_132:

(Start: 1 @72209 has 50 MA's), (2, 72182), (Start: 3 @72173 has 67 MA's), (8, 72032), (9, 72023), (10, 72008), (11, 71999), (12, 71990), (13, 71987), (16, 71972), (25, 71756), (29, 71708),

Gene: Gaia_182 Start: 89217, Stop: 88846, Start Num: 3

Candidate Starts for Gaia_182:

(Start: 3 @89217 has 67 MA's), (7, 89103), (23, 89040), (26, 88944), (27, 88923), (29, 88905), (30, 88890),

Gene: Gator_138 Start: 73238, Stop: 72735, Start Num: 3

Candidate Starts for Gator_138:

(Start: 1 @73274 has 50 MA's), (2, 73247), (Start: 3 @73238 has 67 MA's), (4, 73145), (5, 73142), (8, 73094), (9, 73085), (10, 73070), (11, 73061), (22, 73046), (29, 72794),

Gene: Gemini_143 Start: 73226, Stop: 72714, Start Num: 3

Candidate Starts for Gemini_143:

(Start: 1 @73262 has 50 MA's), (2, 73235), (Start: 3 @73226 has 67 MA's), (4, 73136), (5, 73133), (8, 73085), (9, 73076), (10, 73061), (11, 73052), (14, 73037), (25, 72821), (29, 72773),

Gene: Glexan_140 Start: 73385, Stop: 72885, Start Num: 3

Candidate Starts for Glexan_140:

(Start: 1 @73421 has 50 MA's), (2, 73394), (Start: 3 @73385 has 67 MA's), (4, 73292), (5, 73289), (8, 73241), (9, 73232), (10, 73217), (11, 73208), (29, 72944),

Gene: Goku_136 Start: 73388, Stop: 72852, Start Num: 1

Candidate Starts for Goku_136:

(Start: 1 @73388 has 50 MA's), (2, 73361), (Start: 3 @73352 has 67 MA's), (6, 73247), (29, 72911),

Gene: GoldenSpark_142 Start: 72709, Stop: 72197, Start Num: 3

Candidate Starts for GoldenSpark_142:

(Start: 1 @72745 has 50 MA's), (2, 72718), (Start: 3 @72709 has 67 MA's), (4, 72619), (5, 72616), (8, 72568), (9, 72559), (10, 72544), (11, 72535), (14, 72520), (25, 72304), (29, 72256),

Gene: Goldilocks_143 Start: 73341, Stop: 72793, Start Num: 1

Candidate Starts for Goldilocks_143:

(Start: 1 @73341 has 50 MA's), (2, 73314), (Start: 3 @73305 has 67 MA's), (4, 73215), (5, 73212), (8, 73164), (9, 73155), (10, 73140), (11, 73131), (14, 73116), (25, 72900), (29, 72852),

Gene: GooberAzure_140 Start: 72745, Stop: 72197, Start Num: 1

Candidate Starts for GooberAzure_140:

(Start: 1 @72745 has 50 MA's), (2, 72718), (Start: 3 @72709 has 67 MA's), (4, 72619), (5, 72616), (8, 72568), (9, 72559), (10, 72544), (11, 72535), (14, 72520), (25, 72304), (29, 72256),

Gene: HanKaySha_136 Start: 72663, Stop: 72151, Start Num: 3

Candidate Starts for HanKaySha_136:

(Start: 1 @72699 has 50 MA's), (2, 72672), (Start: 3 @72663 has 67 MA's), (4, 72573), (5, 72570), (8, 72522), (9, 72513), (10, 72498), (11, 72489), (14, 72474), (25, 72258), (29, 72210),

Gene: Harella_143 Start: 73901, Stop: 73401, Start Num: 3

Candidate Starts for Harella_143:

(Start: 1 @73937 has 50 MA's), (2, 73910), (Start: 3 @73901 has 67 MA's), (4, 73808), (5, 73805), (8, 73757), (9, 73748), (10, 73733), (11, 73724), (29, 73460),

Gene: Henry_139 Start: 73691, Stop: 73143, Start Num: 1

Candidate Starts for Henry_139:

(Start: 1 @73691 has 50 MA's), (2, 73664), (Start: 3 @73655 has 67 MA's), (4, 73565), (5, 73562), (8, 73514), (9, 73505), (10, 73490), (11, 73481), (14, 73466), (24, 73271), (25, 73250), (29, 73202),

Gene: Highbury_133 Start: 70630, Stop: 70091, Start Num: 3

Candidate Starts for Highbury_133:

(Start: 1 @70666 has 50 MA's), (2, 70639), (Start: 3 @70630 has 67 MA's), (6, 70525), (25, 70198), (28, 70162), (29, 70150),

Gene: Holt_143 Start: 73492, Stop: 72980, Start Num: 3

Candidate Starts for Holt_143:

(Start: 1 @73528 has 50 MA's), (2, 73501), (Start: 3 @73492 has 67 MA's), (4, 73402), (5, 73399), (8, 73351), (9, 73342), (10, 73327), (11, 73318), (14, 73303), (25, 73087), (29, 73039),

Gene: Hoonter_140 Start: 72750, Stop: 72238, Start Num: 3

Candidate Starts for Hoonter_140:

(Start: 1 @72786 has 50 MA's), (2, 72759), (Start: 3 @72750 has 67 MA's), (4, 72660), (5, 72657), (8, 72609), (9, 72600), (10, 72585), (11, 72576), (14, 72561), (25, 72345), (29, 72297),

Gene: Hohey_135 Start: 72781, Stop: 72245, Start Num: 1

Candidate Starts for Hohey_135:

(Start: 1 @72781 has 50 MA's), (2, 72754), (Start: 3 @72745 has 67 MA's), (6, 72640), (24, 72373), (25, 72352), (29, 72304),

Gene: HufflyPuff_139 Start: 73333, Stop: 72782, Start Num: 1

Candidate Starts for HufflyPuff_139:

(Start: 1 @73333 has 50 MA's), (2, 73306), (Start: 3 @73297 has 67 MA's), (4, 73204), (5, 73201), (8, 73153), (9, 73144), (10, 73129), (11, 73120), (14, 73105), (25, 72889), (29, 72841),

Gene: IHOP_141 Start: 72681, Stop: 72181, Start Num: 3

Candidate Starts for IHOP_141:

(Start: 1 @72717 has 50 MA's), (2, 72690), (Start: 3 @72681 has 67 MA's), (6, 72576), (24, 72309), (25, 72288), (29, 72240),

Gene: Inca_136 Start: 70713, Stop: 70201, Start Num: 3

Candidate Starts for Inca_136:

(Start: 1 @70749 has 50 MA's), (2, 70722), (Start: 3 @70713 has 67 MA's), (4, 70623), (5, 70620), (8, 70572), (9, 70563), (10, 70548), (11, 70539), (14, 70524), (24, 70329), (25, 70308), (29, 70260),

Gene: JeTaime_135 Start: 72265, Stop: 71717, Start Num: 1

Candidate Starts for JeTaime_135:

(Start: 1 @72265 has 50 MA's), (2, 72238), (Start: 3 @72229 has 67 MA's), (4, 72139), (5, 72136), (8, 72088), (9, 72079), (10, 72064), (11, 72055), (14, 72040), (29, 71776),

Gene: Kanye_133 Start: 72745, Stop: 72257, Start Num: 3

Candidate Starts for Kanye_133:

(Start: 1 @72781 has 50 MA's), (2, 72754), (Start: 3 @72745 has 67 MA's), (4, 72655), (5, 72652), (8, 72604), (9, 72595), (10, 72580), (25, 72364), (29, 72316),

Gene: Kimchi_143 Start: 73406, Stop: 72918, Start Num: 3

Candidate Starts for Kimchi_143:

(Start: 1 @73442 has 50 MA's), (2, 73415), (Start: 3 @73406 has 67 MA's), (4, 73316), (5, 73313), (8, 73265), (9, 73256), (10, 73241), (25, 73025), (29, 72977),

Gene: Kostya_138 Start: 73350, Stop: 72814, Start Num: 1

Candidate Starts for Kostya_138:

(Start: 1 @73350 has 50 MA's), (2, 73323), (Start: 3 @73314 has 67 MA's), (4, 73221), (5, 73218), (8, 73170), (9, 73161), (10, 73146), (11, 73137), (25, 72921), (29, 72873),

Gene: Lilac_134 Start: 73243, Stop: 72695, Start Num: 1

Candidate Starts for Lilac_134:

(Start: 1 @73243 has 50 MA's), (2, 73216), (Start: 3 @73207 has 67 MA's), (4, 73117), (5, 73114), (8, 73066), (9, 73057), (11, 73033), (14, 73018), (29, 72754),

Gene: Lilizi_138 Start: 72937, Stop: 72425, Start Num: 3

Candidate Starts for Lilizi_138:

(Start: 1 @72973 has 50 MA's), (2, 72946), (Start: 3 @72937 has 67 MA's), (4, 72847), (5, 72844), (8, 72796), (9, 72787), (10, 72772), (11, 72763), (14, 72748), (25, 72532), (29, 72484),

Gene: Lilpickle_137 Start: 72196, Stop: 71678, Start Num: 3

Candidate Starts for Lilpickle_137:

(Start: 1 @72232 has 50 MA's), (2, 72205), (Start: 3 @72196 has 67 MA's), (6, 72091), (25, 71785), (28, 71749), (29, 71737),

Gene: MISSy_139 Start: 73104, Stop: 72592, Start Num: 3

Candidate Starts for MISSy_139:

(Start: 1 @73140 has 50 MA's), (2, 73113), (Start: 3 @73104 has 67 MA's), (4, 73014), (5, 73011), (8, 72963), (9, 72954), (10, 72939), (11, 72930), (14, 72915), (25, 72699), (29, 72651),

Gene: MPhalcon_138 Start: 72510, Stop: 72010, Start Num: 3

Candidate Starts for MPhalcon_138:

(Start: 1 @72546 has 50 MA's), (2, 72519), (Start: 3 @72510 has 67 MA's), (6, 72405), (25, 72117), (29, 72069),

Gene: MadamMonkfish_137 Start: 72198, Stop: 71686, Start Num: 3

Candidate Starts for MadamMonkfish_137:

(Start: 1 @72234 has 50 MA's), (2, 72207), (Start: 3 @72198 has 67 MA's), (4, 72108), (5, 72105), (8, 72057), (9, 72048), (10, 72033), (11, 72024), (14, 72009), (25, 71793), (29, 71745),

Gene: Marshmallow_138 Start: 73383, Stop: 72871, Start Num: 3

Candidate Starts for Marshmallow_138:

(Start: 1 @73419 has 50 MA's), (2, 73392), (Start: 3 @73383 has 67 MA's), (4, 73293), (5, 73290), (8, 73242), (9, 73233), (10, 73218), (11, 73209), (14, 73194), (25, 72978), (29, 72930),

Gene: Maxxinista_139 Start: 72139, Stop: 71639, Start Num: 3

Candidate Starts for Maxxinista_139:

(Start: 1 @72175 has 50 MA's), (2, 72148), (Start: 3 @72139 has 67 MA's), (6, 72034), (24, 71767), (25, 71746), (29, 71698),

Gene: Mindy_141 Start: 73058, Stop: 72570, Start Num: 3

Candidate Starts for Mindy_141:

(Start: 1 @73094 has 50 MA's), (2, 73067), (Start: 3 @73058 has 67 MA's), (4, 72968), (5, 72965), (8, 72917), (9, 72908), (10, 72893), (24, 72698), (25, 72677), (29, 72629),

Gene: Miniwave_131 Start: 72247, Stop: 71735, Start Num: 3

Candidate Starts for Miniwave_131:

(Start: 1 @72283 has 50 MA's), (2, 72256), (Start: 3 @72247 has 67 MA's), (4, 72157), (5, 72154), (8, 72106), (9, 72097), (10, 72082), (11, 72073), (14, 72058), (25, 71842), (29, 71794),

Gene: Misfit_137 Start: 73420, Stop: 72884, Start Num: 1

Candidate Starts for Misfit_137:

(Start: 1 @73420 has 50 MA's), (2, 73393), (Start: 3 @73384 has 67 MA's), (6, 73279), (25, 72991), (29, 72943),

Gene: Moldemort_140 Start: 72817, Stop: 72305, Start Num: 3

Candidate Starts for Moldemort_140:

(Start: 1 @72853 has 50 MA's), (2, 72826), (Start: 3 @72817 has 67 MA's), (4, 72727), (5, 72724), (8, 72676), (9, 72667), (10, 72652), (11, 72643), (14, 72628), (25, 72412), (29, 72364),

Gene: Mosby_134 Start: 71784, Stop: 71248, Start Num: 1

Candidate Starts for Mosby_134:

(Start: 1 @71784 has 50 MA's), (2, 71757), (Start: 3 @71748 has 67 MA's), (6, 71643), (25, 71355), (29, 71307),

Gene: Murica_141 Start: 74364, Stop: 73816, Start Num: 1

Candidate Starts for Murica_141:

(Start: 1 @74364 has 50 MA's), (2, 74337), (Start: 3 @74328 has 67 MA's), (4, 74238), (5, 74235), (8, 74187), (9, 74178), (10, 74163), (11, 74154), (14, 74139), (25, 73923), (29, 73875),

Gene: Murphy_136 Start: 72561, Stop: 72013, Start Num: 1

Candidate Starts for Murphy_136:

(Start: 1 @72561 has 50 MA's), (2, 72534), (Start: 3 @72525 has 67 MA's), (4, 72435), (5, 72432), (8, 72384), (9, 72375), (10, 72360), (11, 72351), (14, 72336), (25, 72120), (29, 72072),

Gene: Myrale_139 Start: 74025, Stop: 73513, Start Num: 3

Candidate Starts for Myrale_139:

(Start: 1 @74061 has 50 MA's), (2, 74034), (Start: 3 @74025 has 67 MA's), (4, 73935), (5, 73932), (8, 73884), (9, 73875), (10, 73860), (11, 73851), (14, 73836), (24, 73641), (25, 73620), (29, 73572),

Gene: Nala_139 Start: 72835, Stop: 72299, Start Num: 1

Candidate Starts for Nala_139:

(Start: 1 @72835 has 50 MA's), (2, 72808), (Start: 3 @72799 has 67 MA's), (6, 72694), (24, 72427), (25, 72406), (29, 72358),

Gene: Nebkiss_177 Start: 84370, Stop: 83999, Start Num: 3

Candidate Starts for Nebkiss_177:

(Start: 3 @84370 has 67 MA's), (7, 84256), (23, 84193), (26, 84097), (27, 84076), (29, 84058), (30, 84043),

Gene: Nimrod_136 Start: 73298, Stop: 72798, Start Num: 3

Candidate Starts for Nimrod_136:

(Start: 1 @73334 has 50 MA's), (2, 73307), (Start: 3 @73298 has 67 MA's), (6, 73193), (24, 72926), (25, 72905), (29, 72857),

Gene: NoSleep_136 Start: 72076, Stop: 71564, Start Num: 3

Candidate Starts for NoSleep_136:

(Start: 1 @72112 has 50 MA's), (2, 72085), (Start: 3 @72076 has 67 MA's), (4, 71986), (5, 71983), (8, 71935), (9, 71926), (10, 71911), (11, 71902), (14, 71887), (24, 71692), (25, 71671), (29, 71623),

Gene: OrionPax_133 Start: 71756, Stop: 71244, Start Num: 3

Candidate Starts for OrionPax_133:

(Start: 1 @71792 has 50 MA's), (2, 71765), (Start: 3 @71756 has 67 MA's), (4, 71666), (5, 71663), (8, 71615), (9, 71606), (10, 71591), (11, 71582), (14, 71567), (25, 71351), (29, 71303),

Gene: Palpatine_136 Start: 73316, Stop: 72804, Start Num: 3

Candidate Starts for Palpatine_136:

(Start: 1 @73352 has 50 MA's), (2, 73325), (Start: 3 @73316 has 67 MA's), (4, 73226), (5, 73223), (8, 73175), (9, 73166), (10, 73151), (11, 73142), (14, 73127), (25, 72911), (29, 72863),

Gene: Paperbeatsrock_135 Start: 72961, Stop: 72413, Start Num: 1

Candidate Starts for Paperbeatsrock_135:

(Start: 1 @72961 has 50 MA's), (2, 72934), (Start: 3 @72925 has 67 MA's), (4, 72835), (5, 72832), (8, 72784), (9, 72775), (10, 72760), (11, 72751), (14, 72736), (25, 72520), (29, 72472),

Gene: Pat3_137 Start: 72541, Stop: 72029, Start Num: 3

Candidate Starts for Pat3_137:

(Start: 1 @72577 has 50 MA's), (2, 72550), (Start: 3 @72541 has 67 MA's), (4, 72451), (5, 72448), (8, 72400), (9, 72391), (10, 72376), (11, 72367), (14, 72352), (25, 72136), (29, 72088),

Gene: Petra64142_138 Start: 72988, Stop: 72473, Start Num: 3

Candidate Starts for Petra64142_138:

(Start: 1 @73024 has 50 MA's), (2, 72997), (Start: 3 @72988 has 67 MA's), (6, 72886), (24, 72601), (25, 72580), (29, 72532),

Gene: Phaja_141 Start: 72686, Stop: 72186, Start Num: 3

Candidate Starts for Phaja_141:

(Start: 1 @72722 has 50 MA's), (2, 72695), (Start: 3 @72686 has 67 MA's), (6, 72581), (24, 72314), (25, 72293), (29, 72245),

Gene: Pharsalus_135 Start: 73101, Stop: 72553, Start Num: 1

Candidate Starts for Pharsalus_135:

(Start: 1 @73101 has 50 MA's), (2, 73074), (Start: 3 @73065 has 67 MA's), (4, 72975), (5, 72972), (8, 72924), (9, 72915), (10, 72900), (11, 72891), (14, 72876), (25, 72660), (29, 72612),

Gene: PhatBacter_140 Start: 73107, Stop: 72556, Start Num: 1

Candidate Starts for PhatBacter_140:

(Start: 1 @73107 has 50 MA's), (2, 73080), (Start: 3 @73071 has 67 MA's), (4, 72978), (5, 72975), (8, 72927), (9, 72918), (10, 72903), (11, 72894), (14, 72879), (25, 72663), (29, 72615),

Gene: Phaux_139 Start: 73730, Stop: 73182, Start Num: 1

Candidate Starts for Phaux_139:

(Start: 1 @73730 has 50 MA's), (2, 73703), (Start: 3 @73694 has 67 MA's), (4, 73604), (5, 73601), (8, 73553), (9, 73544), (10, 73529), (11, 73520), (14, 73505), (25, 73289), (29, 73241),

Gene: Phrux_133 Start: 71579, Stop: 71031, Start Num: 1

Candidate Starts for Phrux_133:

(Start: 1 @71579 has 50 MA's), (2, 71552), (Start: 3 @71543 has 67 MA's), (4, 71453), (5, 71450), (8, 71402), (9, 71393), (10, 71378), (11, 71369), (14, 71354), (25, 71138), (29, 71090),

Gene: Policronamos_140 Start: 73398, Stop: 72886, Start Num: 3

Candidate Starts for Policronamos_140:

(Start: 1 @73434 has 50 MA's), (2, 73407), (Start: 3 @73398 has 67 MA's), (4, 73308), (5, 73305), (8, 73257), (9, 73248), (10, 73233), (11, 73224), (14, 73209), (25, 72993), (29, 72945),

Gene: Porky_139 Start: 73144, Stop: 72632, Start Num: 3

Candidate Starts for Porky_139:

(Start: 1 @73180 has 50 MA's), (2, 73153), (Start: 3 @73144 has 67 MA's), (4, 73054), (5, 73051), (8, 73003), (9, 72994), (10, 72979), (11, 72970), (14, 72955), (22, 72943), (24, 72760), (25, 72739), (29, 72691),

Gene: Pumpkin_137 Start: 71843, Stop: 71307, Start Num: 1

Candidate Starts for Pumpkin_137:

(Start: 1 @71843 has 50 MA's), (2, 71816), (Start: 3 @71807 has 67 MA's), (6, 71702), (24, 71435), (25, 71414), (29, 71366),

Gene: Quallification_138 Start: 73409, Stop: 72891, Start Num: 3

Candidate Starts for Quallification_138:

(Start: 1 @73445 has 50 MA's), (2, 73418), (Start: 3 @73409 has 67 MA's), (6, 73304), (25, 72998), (29, 72950),

Gene: Rakim_139 Start: 72948, Stop: 72400, Start Num: 1

Candidate Starts for Rakim_139:

(Start: 1 @72948 has 50 MA's), (2, 72921), (Start: 3 @72912 has 67 MA's), (4, 72822), (5, 72819), (8, 72771), (9, 72762), (10, 72747), (11, 72738), (14, 72723), (24, 72528), (25, 72507), (29, 72459),

Gene: Rimmer_134 Start: 72278, Stop: 71766, Start Num: 3

Candidate Starts for Rimmer_134:

(Start: 1 @72314 has 50 MA's), (2, 72287), (Start: 3 @72278 has 67 MA's), (4, 72188), (5, 72185), (8, 72137), (9, 72128), (10, 72113), (11, 72104), (14, 72089), (24, 71894), (25, 71873), (29, 71825),

Gene: RiverMonster_136 Start: 72438, Stop: 71926, Start Num: 3

Candidate Starts for RiverMonster_136:

(Start: 1 @72474 has 50 MA's), (2, 72447), (Start: 3 @72438 has 67 MA's), (4, 72348), (5, 72345), (8, 72297), (9, 72288), (10, 72273), (11, 72264), (14, 72249), (25, 72033), (29, 71985),

Gene: Saints25_133 Start: 70630, Stop: 70091, Start Num: 3

Candidate Starts for Saints25_133:

(Start: 1 @70666 has 50 MA's), (2, 70639), (Start: 3 @70630 has 67 MA's), (6, 70525), (25, 70198), (28, 70162), (29, 70150),

Gene: Sassay_132 Start: 70746, Stop: 70210, Start Num: 1

Candidate Starts for Sassay_132:

(Start: 1 @70746 has 50 MA's), (2, 70719), (Start: 3 @70710 has 67 MA's), (6, 70605), (25, 70317), (29, 70269),

Gene: ShamWow_136 Start: 73279, Stop: 72743, Start Num: 1

Candidate Starts for ShamWow_136:

(Start: 1 @73279 has 50 MA's), (2, 73252), (Start: 3 @73243 has 67 MA's), (6, 73138), (25, 72850), (29, 72802),

Gene: ShereKhan_137 Start: 73625, Stop: 73137, Start Num: 3

Candidate Starts for ShereKhan_137:

(Start: 1 @73661 has 50 MA's), (2, 73634), (Start: 3 @73625 has 67 MA's), (4, 73535), (5, 73532), (8, 73484), (9, 73475), (10, 73460), (24, 73265), (25, 73244), (29, 73196),

Gene: Simpliphy_136 Start: 72045, Stop: 71497, Start Num: 1

Candidate Starts for Simpliphy_136:

(Start: 1 @72045 has 50 MA's), (2, 72018), (Start: 3 @72009 has 67 MA's), (4, 71919), (5, 71916), (8, 71868), (9, 71859), (10, 71844), (11, 71835), (14, 71820), (25, 71604), (29, 71556),

Gene: SirDuracell_140 Start: 73458, Stop: 72892, Start Num: 1

Candidate Starts for SirDuracell_140:

(Start: 1 @73458 has 50 MA's), (2, 73431), (Start: 3 @73422 has 67 MA's), (6, 73317), (24, 73020), (25, 72999), (29, 72951),

Gene: SophKB_135 Start: 72877, Stop: 72377, Start Num: 3

Candidate Starts for SophKB_135:

(Start: 1 @72913 has 50 MA's), (2, 72886), (Start: 3 @72877 has 67 MA's), (6, 72772), (24, 72505), (25, 72484), (29, 72436),

Gene: Sotrice96_142 Start: 73615, Stop: 73043, Start Num: 1

Candidate Starts for Sotrice96_142:

(Start: 1 @73615 has 50 MA's), (2, 73588), (Start: 3 @73579 has 67 MA's), (4, 73489), (5, 73486), (8, 73438), (9, 73429), (10, 73414), (11, 73405), (14, 73390), (15, 73381), (17, 73366), (29, 73102),

Gene: Stank_141 Start: 73502, Stop: 72990, Start Num: 3

Candidate Starts for Stank_141:

(Start: 1 @73538 has 50 MA's), (2, 73511), (Start: 3 @73502 has 67 MA's), (4, 73412), (5, 73409), (8, 73361), (9, 73352), (10, 73337), (11, 73328), (14, 73313), (25, 73097), (29, 73049),

Gene: Stark_135 Start: 72281, Stop: 71745, Start Num: 1

Candidate Starts for Stark_135:

(Start: 1 @72281 has 50 MA's), (2, 72254), (Start: 3 @72245 has 67 MA's), (6, 72140), (24, 71873), (25, 71852), (29, 71804),

Gene: StellaBean_132 Start: 73016, Stop: 72495, Start Num: 2

Candidate Starts for StellaBean_132:

(Start: 1 @73043 has 50 MA's), (2, 73016), (Start: 3 @73007 has 67 MA's), (4, 72917), (5, 72914), (8, 72866), (9, 72857), (10, 72842), (11, 72833), (14, 72818), (25, 72602), (29, 72554),

Gene: StolenFromERC_140 Start: 72847, Stop: 72335, Start Num: 3

Candidate Starts for StolenFromERC_140:

(Start: 1 @72883 has 50 MA's), (2, 72856), (Start: 3 @72847 has 67 MA's), (4, 72757), (5, 72754), (8, 72706), (9, 72697), (10, 72682), (11, 72673), (14, 72658), (25, 72442), (29, 72394),

Gene: TBrady12_142 Start: 72939, Stop: 72427, Start Num: 3

Candidate Starts for TBrady12_142:

(Start: 1 @72975 has 50 MA's), (2, 72948), (Start: 3 @72939 has 67 MA's), (4, 72849), (5, 72846), (8, 72798), (9, 72789), (10, 72774), (11, 72765), (14, 72750), (29, 72486),

Gene: Tarkin_136 Start: 73526, Stop: 73002, Start Num: 1

Candidate Starts for Tarkin_136:

(Start: 1 @73526 has 50 MA's), (2, 73499), (Start: 3 @73490 has 67 MA's), (4, 73400), (5, 73397), (8, 73349), (9, 73340), (10, 73325), (25, 73109), (29, 73061),

Gene: TeardropMSU_138 Start: 72538, Stop: 71990, Start Num: 1

Candidate Starts for TeardropMSU_138:

(Start: 1 @72538 has 50 MA's), (2, 72511), (Start: 3 @72502 has 67 MA's), (4, 72412), (5, 72409), (8, 72361), (9, 72352), (10, 72337), (11, 72328), (14, 72313), (25, 72097), (29, 72049),

Gene: Terminus_140 Start: 73420, Stop: 72884, Start Num: 1

Candidate Starts for Terminus_140:

(Start: 1 @73420 has 50 MA's), (2, 73393), (Start: 3 @73384 has 67 MA's), (6, 73279), (25, 72991), (29, 72943),

Gene: Thresher_139 Start: 73322, Stop: 72810, Start Num: 3

Candidate Starts for Thresher_139:

(Start: 1 @73358 has 50 MA's), (2, 73331), (Start: 3 @73322 has 67 MA's), (4, 73232), (5, 73229), (8, 73181), (9, 73172), (10, 73157), (11, 73148), (14, 73133), (24, 72938), (25, 72917), (29, 72869),

Gene: Tomaszewski_131 Start: 71922, Stop: 71422, Start Num: 3

Candidate Starts for Tomaszewski_131:

(Start: 1 @71958 has 50 MA's), (2, 71931), (Start: 3 @71922 has 67 MA's), (6, 71817), (25, 71529), (29, 71481),

Gene: Toto_134 Start: 73279, Stop: 72743, Start Num: 1

Candidate Starts for Toto_134:

(Start: 1 @73279 has 50 MA's), (2, 73252), (Start: 3 @73243 has 67 MA's), (6, 73138), (25, 72850), (29, 72802),

Gene: Traaww1_134 Start: 72348, Stop: 71824, Start Num: 3

Candidate Starts for Traaww1_134:

(Start: 1 @72384 has 50 MA's), (2, 72357), (Start: 3 @72348 has 67 MA's), (8, 72207), (9, 72198), (10, 72183), (11, 72174), (12, 72165), (13, 72162), (16, 72147), (25, 71931), (29, 71883),

Gene: Tuco_143 Start: 74597, Stop: 74049, Start Num: 1

Candidate Starts for Tuco_143:

(Start: 1 @74597 has 50 MA's), (2, 74570), (Start: 3 @74561 has 67 MA's), (4, 74471), (5, 74468), (8, 74420), (9, 74411), (10, 74396), (11, 74387), (14, 74372), (25, 74156), (29, 74108),

Gene: Ukulele_132 Start: 71842, Stop: 71306, Start Num: 1

Candidate Starts for Ukulele_132:

(Start: 1 @71842 has 50 MA's), (2, 71815), (Start: 3 @71806 has 67 MA's), (6, 71701), (24, 71434), (25, 71413), (29, 71365),

Gene: Wiggin_140 Start: 72516, Stop: 71968, Start Num: 1

Candidate Starts for Wiggin_140:

(Start: 1 @72516 has 50 MA's), (2, 72489), (Start: 3 @72480 has 67 MA's), (4, 72390), (5, 72387), (8, 72339), (9, 72330), (10, 72315), (11, 72306), (14, 72291), (25, 72075), (29, 72027),

Gene: Willez_135 Start: 71827, Stop: 71291, Start Num: 1

Candidate Starts for Willez_135:

(Start: 1 @71827 has 50 MA's), (2, 71800), (Start: 3 @71791 has 67 MA's), (6, 71686), (25, 71398), (29, 71350),

Gene: Xandras_138 Start: 72756, Stop: 72244, Start Num: 3

Candidate Starts for Xandras_138:

(Start: 1 @72792 has 50 MA's), (2, 72765), (Start: 3 @72756 has 67 MA's), (4, 72666), (5, 72663), (8, 72615), (9, 72606), (10, 72591), (11, 72582), (14, 72567), (25, 72351), (29, 72303),

Gene: YassJohnny_133 Start: 70972, Stop: 70460, Start Num: 3

Candidate Starts for YassJohnny_133:

(Start: 1 @71008 has 50 MA's), (2, 70981), (Start: 3 @70972 has 67 MA's), (4, 70882), (5, 70879), (8, 70831), (9, 70822), (10, 70807), (11, 70798), (14, 70783), (25, 70567), (29, 70519),

Gene: Youngblood_141 Start: 73147, Stop: 72611, Start Num: 1

Candidate Starts for Youngblood_141:

(Start: 1 @73147 has 50 MA's), (2, 73120), (Start: 3 @73111 has 67 MA's), (6, 73006), (25, 72718), (29, 72670),

Gene: xkcd_141 Start: 73760, Stop: 73248, Start Num: 3

Candidate Starts for xkcd_141:

(Start: 1 @73796 has 50 MA's), (2, 73769), (Start: 3 @73760 has 67 MA's), (4, 73670), (5, 73667), (8, 73619), (9, 73610), (10, 73595), (11, 73586), (14, 73571), (25, 73355), (29, 73307),