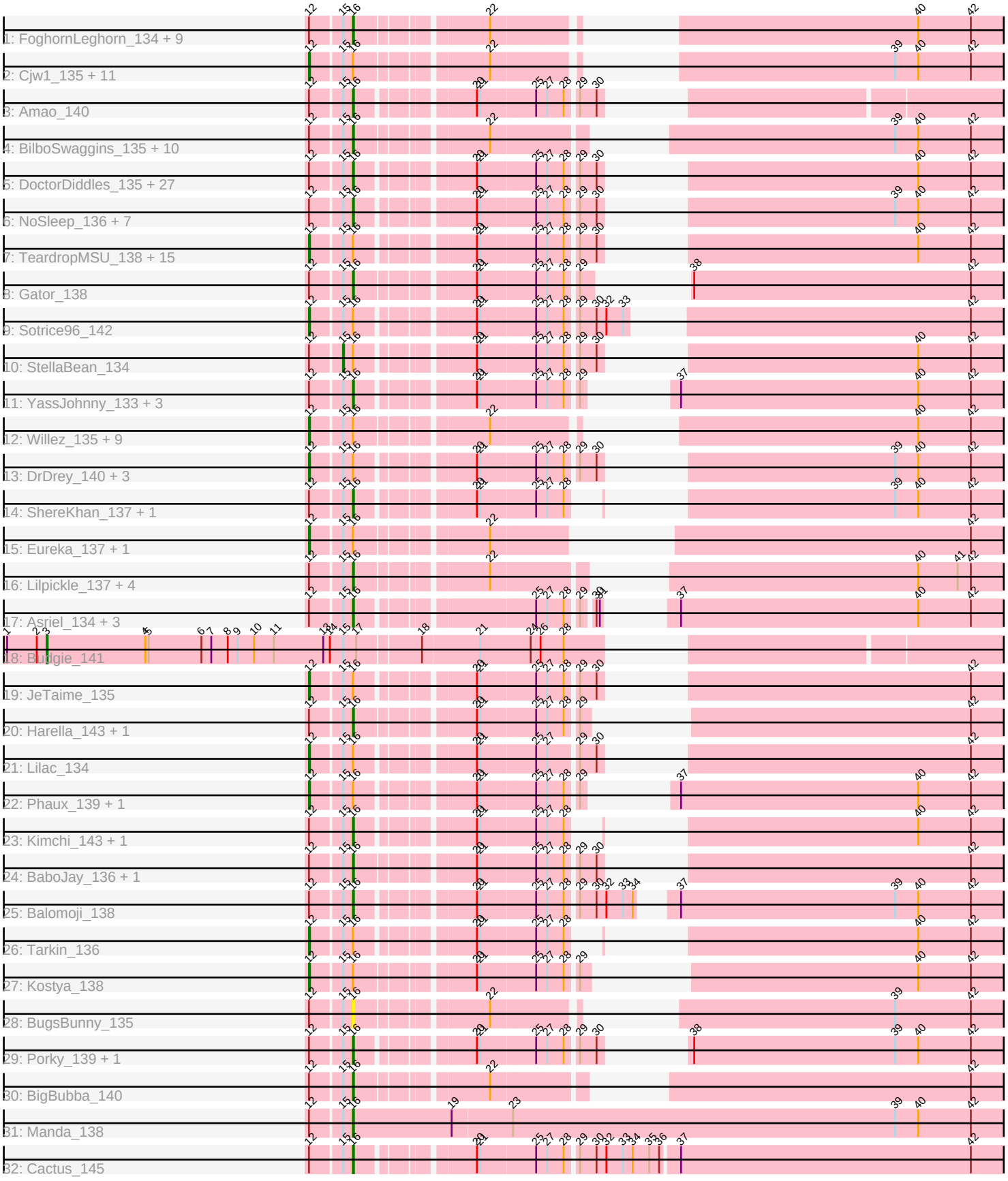
Pham 332596


1: FoghornLeghorn_134 + 9
2: Cjw1_135 + 11
3: Amao_140
4: BilboSwaggins_135 + 10
5: DoctorDiddles_135 + 27
6: NoSleep_136 + 7
7: TeardropMSU_138 + 15
8: Gator_138
9: Sotrice96_142
10: StellaBean_134
11: YassJohnny_133 + 3
12: Willez_135 + 9
13: DrDrey_140 + 3
14: ShereKhan_137 + 1
15: Eureka_137 + 1
16: Lilpickle_137 + 4
17: Asriel_134 + 3
18: Budgie_141
19: JeTaime_135
20: Harella_143 + 1
21: Lilac_134
22: Phaux_139 + 1
23: Kimchi_143 + 1
24: BaboJay_136 + 1
25: Balomoji_138
26: Tarkin_136
27: Kostya_138
28: BugsBunny_135
29: Porky_139 + 1
30: BigBubba_140
31: Manda_138
32: Cactus_145

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 332596 Report

This analysis was run 11/14/26 on database version 672.

Pham number 332596 has 140 members, 11 are drafts.

Phages represented in each track:
• Track 1 : FoghornLeghorn_134, Tomaszewski_131, Livelaughbron_136, Cookies_139, MollyToe_131, StormChicken_139, Quallification_138, MPhalcon_138, Greep_141, Becksu_134
• Track 2 : 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 3 : Amao_140
• Track 4 : BilboSwaggins_135, IHOP_141, SophKB_135, Bogg_138, Phaja_141, Petra64142_138, PaddyBaddy_134, FairyPath_139, Maxxinista_139, Brewer_133, Nimrod_136
• Track 5 : DoctorDiddles_135, OrionPax_133, StolenFromERC_140, Buck_138, Miniwave_131, NonchalantPear_138, BadStone_138, Marshmallow_138, Pat3_137, Holt_143, Bench_139, Filch_139, xkcd_141, HanKaySha_136, RiverMonster_136, Adnama_142, Xandras_138, Gemini_143, ChotaBhai_141, Moldemort_140, Hoonter_140, MadamMonkfish_137, AmericanBeauty_141, Lilizi_138, GoldenSpark_142, Argent26_142, Ptowny_130, Stank_141
• Track 6 : NoSleep_136, Command613_140, Daikon_140, Myrale_139, Thresher_139, Rimmer_134, Czyszczon1_137, Inca_136
• Track 7 : TeardropMSU_138, Goldilocks_143, FireRed_140, Dusk_138, ABCat_138, HufflyPuff_139, Paperbeatsrock_135, GooberAzure_140, Tuco_143, Wiggin_140, Phrux_133, Murphy_136, Pharsalus_135, PhatBacter_140, Easy2Say_139, Simpliphy_136
• Track 8 : Gator_138
• Track 9 : Sotrice96_142
• Track 10 : StellaBean_134
• Track 11 : YassJohnny_133, MISSy_139, Palpatine_137, Policronamos_137
• Track 12 : Willez_135, Mosby_134, Misfit_137, Youngblood_141, Contagion_133, Toto_134, Terminus_140, TeamEdward_137, ShamWow_136, Sassay_132
• Track 13 : DrDrey_140, Henry_139, Elph10_135, Rakim_139
• Track 14 : ShereKhan_137, Mindy_141
• Track 15 : Eureka_137, Goku_136
• Track 16 : Lilpickle_137, Highbury_133, ChosenOne_138, Saints25_133, Elite2014_137
• Track 17 : Asriel_134, Barbarian_137, Flypotenuse_132, Traaww1_134
• Track 18 : Budgie_141
• Track 19 : JeTaime_135
• Track 20 : Harella_143, Glexan_140
• Track 21 : Lilac_134

• Track 22 : Phaux_139, Murica_141
• Track 23 : Kimchi_143, Kanye_133
• Track 24 : BaboJay_136, TBrady12_142
• Track 25 : Balomoji_138
• Track 26 : Tarkin_136
• Track 27 : Kostya_138
• Track 28 : BugsBunny_135
• Track 29 : Porky_139, Emmina_138
• Track 30 : BigBubba_140
• Track 31 : Manda_138
• Track 32 : Cactus_145

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

The start number called the most often in the published annotations is 16, it was called in 76 of the 129 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adnama_142, Amao_140, AmericanBeauty_141, Argent26_142, Asriel_134, BaboJay_136, BadStone_138, Balomoji_138, Barbarian_137, Becksu_134, Bench_139, BigBubba_140, BilboSwaggins_135, Bogg_138, Brewer_133, Buck_138, BugsBunny_135, Cactus_145, ChosenOne_138, ChotaBhai_141, Command613_140, Cookies_139, Czyszczon1_137, Daikon_140, DoctorDiddles_135, Elite2014_137, Emmina_138, FairyPath_139, Filch_139, Flypotenuse_132, FoghornLeghorn_134, Gator_138, Gemini_143, Glexan_140, GoldenSpark_142, Greep_141, HanKaySha_136, Harella_143, Highbury_133, Holt_143, Hoonter_140, IHOP_141, Inca_136, Kanye_133, Kimchi_143, Lilizi_138, Lilpickle_137, Livelaughbron_136, MISSy_139, MPhalcon_138, MadamMonkfish_137, Manda_138, Marshmallow_138, Maxxinista_139, Mindy_141, Miniwave_131, Moldemort_140, MollyToe_131, Myrale_139, Nimrod_136, NoSleep_136, NonchalantPear_138, OrionPax_133, PaddyBaddy_134, Palpatine_137, Pat3_137, Petra64142_138, Phaja_141, Policronamos_137, Porky_139, Ptowny_130, Quallification_138, Rimmer_134, RiverMonster_136, Saints25_133, ShereKhan_137, SophKB_135, Stank_141, StolenFromERC_140, StormChicken_139, 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_134, Tarkin_136, TeamEdward_137, 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:

• Budgie_141,

Summary by start number:

Start 3:
• Found in 1 of 140 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 129
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Budgie_141 (E),

Start 12:
• Found in 139 of 140 (99.3%) of genes in pham
• Manual Annotations of this start: 51 of 129
• Called 36.7% 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), HufflyPuff_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), TeamEdward_137 (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 15:
• Found in 140 of 140 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 129
• Called 0.7% of time when present
• Phage (with cluster) where this start called: StellaBean_134 (E),

Start 16:
• Found in 139 of 140 (99.3%) of genes in pham
• Manual Annotations of this start: 76 of 129
• Called 62.6% of time when present
• Phage (with cluster) where this start called: Adnama_142 (E), Amao_140 (E), AmericanBeauty_141 (E), Argent26_142 (E), Asriel_134 (E), BaboJay_136 (E), BadStone_138 (E), Balomoji_138 (E), Barbarian_137 (E), Becksu_134 (E), Bench_139 (E), BigBubba_140 (E), BilboSwaggins_135 (E), Bogg_138 (E), Brewer_133 (E), Buck_138 (E), BugsBunny_135 (E), Cactus_145 (E), ChosenOne_138 (E), ChotaBhai_141 (E), Command613_140 (E), Cookies_139 (E), Czyszczon1_137 (E), Daikon_140 (E), DoctorDiddles_135 (E), Elite2014_137 (E), Emmina_138 (E), FairyPath_139 (E), Filch_139 (E), Flypotenuse_132 (E), FoghornLeghorn_134 (E), Gator_138 (E), Gemini_143 (E), Glexan_140 (E), GoldenSpark_142 (E), Greep_141 (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), Livelaughbron_136 (E), MISSy_139 (E), MPhalcon_138 (E), MadamMonkfish_137 (E), Manda_138 (E), Marshmallow_138 (E), Maxxinista_139 (E), Mindy_141 (E), Miniwave_131 (E), Moldemort_140 (E), MollyToe_131 (E), Myrale_139 (E), Nimrod_136 (E),

NoSleep_136 (E), NonchalantPear_138 (E), OrionPax_133 (E), PaddyBaddy_134 (E), Palpatine_137 (E), Pat3_137 (E), Petra64142_138 (E), Phaja_141 (E), Policronamos_137 (E), Porky_139 (E), Ptowny_130 (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), StormChicken_139 (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 is one cluster represented in this pham: E

Info for manual annotations of cluster E:
•Start number 3 was manually annotated 1 time for cluster E.
•Start number 12 was manually annotated 51 times for cluster E.
•Start number 15 was manually annotated 1 time for cluster E.
•Start number 16 was manually annotated 76 times for cluster E.

Gene Information:

Gene: 244_138 Start: 72145, Stop: 71609, Start Num: 12
Candidate Starts for 244_138:
(Start: 12 @72145 has 51 MA's), (Start: 15 @72118 has 1 MA's), (Start: 16 @72109 has 76 MA's), (22, 72004), (39, 71737), (40, 71716), (42, 71668),

Gene: ABCat_138 Start: 73784, Stop: 73236, Start Num: 12
Candidate Starts for ABCat_138:
(Start: 12 @73784 has 51 MA's), (Start: 15 @73757 has 1 MA's), (Start: 16 @73748 has 76 MA's), (20, 73658), (21, 73655), (25, 73607), (27, 73598), (28, 73583), (29, 73574), (30, 73559), (40, 73343), (42, 73295),

Gene: Adnama_142 Start: 72785, Stop: 72273, Start Num: 16
Candidate Starts for Adnama_142:
(Start: 12 @72821 has 51 MA's), (Start: 15 @72794 has 1 MA's), (Start: 16 @72785 has 76 MA's), (20, 72695), (21, 72692), (25, 72644), (27, 72635), (28, 72620), (29, 72611), (30, 72596), (40, 72380), (42, 72332),

Gene: Amao_140 Start: 73351, Stop: 72848, Start Num: 16
Candidate Starts for Amao_140:
(Start: 12 @73387 has 51 MA's), (Start: 15 @73360 has 1 MA's), (Start: 16 @73351 has 76 MA's), (20, 73261), (21, 73258), (25, 73210), (27, 73201), (28, 73186), (29, 73177), (30, 73162),

Gene: AmericanBeauty_141 Start: 72827, Stop: 72315, Start Num: 16
Candidate Starts for AmericanBeauty_141:
(Start: 12 @72863 has 51 MA's), (Start: 15 @72836 has 1 MA's), (Start: 16 @72827 has 76 MA's), (20, 72737), (21, 72734), (25, 72686), (27, 72677), (28, 72662), (29, 72653), (30, 72638), (40, 72422), (42, 72374),

Gene: Argent26_142 Start: 72709, Stop: 72197, Start Num: 16
Candidate Starts for Argent26_142:

(Start: 12 @72745 has 51 MA's), (Start: 15 @72718 has 1 MA's), (Start: 16 @72709 has 76 MA's), (20, 72619), (21, 72616), (25, 72568), (27, 72559), (28, 72544), (29, 72535), (30, 72520), (40, 72304), (42, 72256),

Gene: Asriel_134 Start: 71519, Stop: 70995, Start Num: 16
Candidate Starts for Asriel_134:
(Start: 12 @71555 has 51 MA's), (Start: 15 @71528 has 1 MA's), (Start: 16 @71519 has 76 MA's), (25, 71378), (27, 71369), (28, 71354), (29, 71345), (30, 71336), (31, 71333), (37, 71318), (40, 71102), (42, 71054),

Gene: BaboJay_136 Start: 73291, Stop: 72776, Start Num: 16
Candidate Starts for BaboJay_136:
(Start: 12 @73327 has 51 MA's), (Start: 15 @73300 has 1 MA's), (Start: 16 @73291 has 76 MA's), (20, 73198), (21, 73195), (25, 73147), (27, 73138), (28, 73123), (29, 73114), (30, 73099), (42, 72835),

Gene: BadStone_138 Start: 73296, Stop: 72784, Start Num: 16
Candidate Starts for BadStone_138:
(Start: 12 @73332 has 51 MA's), (Start: 15 @73305 has 1 MA's), (Start: 16 @73296 has 76 MA's), (20, 73206), (21, 73203), (25, 73155), (27, 73146), (28, 73131), (29, 73122), (30, 73107), (40, 72891), (42, 72843),

Gene: Balomoji_138 Start: 73344, Stop: 72784, Start Num: 16
Candidate Starts for Balomoji_138:
(Start: 12 @73380 has 51 MA's), (Start: 15 @73353 has 1 MA's), (Start: 16 @73344 has 76 MA's), (20, 73254), (21, 73251), (25, 73203), (27, 73194), (28, 73179), (29, 73170), (30, 73155), (32, 73146), (33, 73131), (34, 73122), (37, 73107), (39, 72912), (40, 72891), (42, 72843),

Gene: Barbarian_137 Start: 71519, Stop: 70995, Start Num: 16
Candidate Starts for Barbarian_137:
(Start: 12 @71555 has 51 MA's), (Start: 15 @71528 has 1 MA's), (Start: 16 @71519 has 76 MA's), (25, 71378), (27, 71369), (28, 71354), (29, 71345), (30, 71336), (31, 71333), (37, 71318), (40, 71102), (42, 71054),

Gene: Bask21_141 Start: 72248, Stop: 71673, Start Num: 12
Candidate Starts for Bask21_141:
(Start: 12 @72248 has 51 MA's), (Start: 15 @72221 has 1 MA's), (Start: 16 @72212 has 76 MA's), (22, 72107), (39, 71801), (40, 71780), (42, 71732),

Gene: Becksu_134 Start: 73159, Stop: 72659, Start Num: 16
Candidate Starts for Becksu_134:
(Start: 12 @73195 has 51 MA's), (Start: 15 @73168 has 1 MA's), (Start: 16 @73159 has 76 MA's), (22, 73054), (40, 72766), (42, 72718),

Gene: Bench_139 Start: 73014, Stop: 72502, Start Num: 16
Candidate Starts for Bench_139:
(Start: 12 @73050 has 51 MA's), (Start: 15 @73023 has 1 MA's), (Start: 16 @73014 has 76 MA's), (20, 72924), (21, 72921), (25, 72873), (27, 72864), (28, 72849), (29, 72840), (30, 72825), (40, 72609), (42, 72561),

Gene: BigBubba_140 Start: 72225, Stop: 71707, Start Num: 16
Candidate Starts for BigBubba_140:
(Start: 12 @72261 has 51 MA's), (Start: 15 @72234 has 1 MA's), (Start: 16 @72225 has 76 MA's), (22, 72120), (42, 71766),

Gene: BilboSwaggins_135 Start: 73793, Stop: 73275, Start Num: 16
Candidate Starts for BilboSwaggins_135:
(Start: 12 @73829 has 51 MA's), (Start: 15 @73802 has 1 MA's), (Start: 16 @73793 has 76 MA's), (22, 73688), (39, 73403), (40, 73382), (42, 73334),

Gene: Bogg_138 Start: 72816, Stop: 72298, Start Num: 16
Candidate Starts for Bogg_138:
(Start: 12 @72852 has 51 MA's), (Start: 15 @72825 has 1 MA's), (Start: 16 @72816 has 76 MA's), (22, 72711), (39, 72426), (40, 72405), (42, 72357),

Gene: Brewer_133 Start: 71160, Stop: 70660, Start Num: 16
Candidate Starts for Brewer_133:
(Start: 12 @71196 has 51 MA's), (Start: 15 @71169 has 1 MA's), (Start: 16 @71160 has 76 MA's), (22, 71055), (39, 70788), (40, 70767), (42, 70719),

Gene: Bruin_134 Start: 71461, Stop: 70886, Start Num: 12
Candidate Starts for Bruin_134:
(Start: 12 @71461 has 51 MA's), (Start: 15 @71434 has 1 MA's), (Start: 16 @71425 has 76 MA's), (22, 71320), (39, 71014), (40, 70993), (42, 70945),

Gene: Buck_138 Start: 73670, Stop: 73155, Start Num: 16
Candidate Starts for Buck_138:
(Start: 12 @73706 has 51 MA's), (Start: 15 @73679 has 1 MA's), (Start: 16 @73670 has 76 MA's), (20, 73577), (21, 73574), (25, 73526), (27, 73517), (28, 73502), (29, 73493), (30, 73478), (40, 73262), (42, 73214),

Gene: Budgie_141 Start: 73504, Stop: 72698, Start Num: 3
Candidate Starts for Budgie_141:
(1, 73540), (2, 73513), (Start: 3 @73504 has 1 MA's), (4, 73414), (5, 73411), (6, 73363), (7, 73354), (8, 73339), (9, 73330), (10, 73315), (11, 73297), (13, 73252), (14, 73246), (Start: 15 @73234 has 1 MA's), (17, 73222), (18, 73168), (21, 73117), (24, 73072), (26, 73063), (28, 73042),

Gene: BugsBunny_135 Start: 72701, Stop: 72201, Start Num: 16
Candidate Starts for BugsBunny_135:
(Start: 12 @72737 has 51 MA's), (Start: 15 @72710 has 1 MA's), (Start: 16 @72701 has 76 MA's), (22, 72596), (39, 72329), (42, 72260),

Gene: Cactus_145 Start: 72883, Stop: 72299, Start Num: 16
Candidate Starts for Cactus_145:
(Start: 12 @72919 has 51 MA's), (Start: 15 @72892 has 1 MA's), (Start: 16 @72883 has 76 MA's), (20, 72793), (21, 72790), (25, 72742), (27, 72733), (28, 72718), (29, 72709), (30, 72694), (32, 72685), (33, 72670), (34, 72661), (35, 72646), (36, 72637), (37, 72622), (42, 72358),

Gene: ChosenOne_138 Start: 72197, Stop: 71679, Start Num: 16
Candidate Starts for ChosenOne_138:
(Start: 12 @72233 has 51 MA's), (Start: 15 @72206 has 1 MA's), (Start: 16 @72197 has 76 MA's), (22, 72092), (40, 71786), (41, 71750), (42, 71738),

Gene: ChotaBhai_141 Start: 72976, Stop: 72464, Start Num: 16
Candidate Starts for ChotaBhai_141:
(Start: 12 @73012 has 51 MA's), (Start: 15 @72985 has 1 MA's), (Start: 16 @72976 has 76 MA's), (20, 72886), (21, 72883), (25, 72835), (27, 72826), (28, 72811), (29, 72802), (30, 72787), (40, 72571), (42,

72523),

Gene: Cjw1_135 Start: 73416, Stop: 72880, Start Num: 12
Candidate Starts for Cjw1_135:
(Start: 12 @73416 has 51 MA's), (Start: 15 @73389 has 1 MA's), (Start: 16 @73380 has 76 MA's), (22, 73275), (39, 73008), (40, 72987), (42, 72939),

Gene: Command613_140 Start: 73287, Stop: 72775, Start Num: 16
Candidate Starts for Command613_140:
(Start: 12 @73323 has 51 MA's), (Start: 15 @73296 has 1 MA's), (Start: 16 @73287 has 76 MA's), (20, 73197), (21, 73194), (25, 73146), (27, 73137), (28, 73122), (29, 73113), (30, 73098), (39, 72903), (40, 72882), (42, 72834),

Gene: Contagion_133 Start: 71784, Stop: 71248, Start Num: 12
Candidate Starts for Contagion_133:
(Start: 12 @71784 has 51 MA's), (Start: 15 @71757 has 1 MA's), (Start: 16 @71748 has 76 MA's), (22, 71643), (40, 71355), (42, 71307),

Gene: Cookies_139 Start: 73555, Stop: 73016, Start Num: 16
Candidate Starts for Cookies_139:
(Start: 12 @73591 has 51 MA's), (Start: 15 @73564 has 1 MA's), (Start: 16 @73555 has 76 MA's), (22, 73450), (40, 73123), (42, 73075),

Gene: CrystalP_137 Start: 73829, Stop: 73275, Start Num: 12
Candidate Starts for CrystalP_137:
(Start: 12 @73829 has 51 MA's), (Start: 15 @73802 has 1 MA's), (Start: 16 @73793 has 76 MA's), (22, 73688), (39, 73403), (40, 73382), (42, 73334),

Gene: Czyszczon1_137 Start: 72205, Stop: 71693, Start Num: 16
Candidate Starts for Czyszczon1_137:
(Start: 12 @72241 has 51 MA's), (Start: 15 @72214 has 1 MA's), (Start: 16 @72205 has 76 MA's), (20, 72115), (21, 72112), (25, 72064), (27, 72055), (28, 72040), (29, 72031), (30, 72016), (39, 71821), (40, 71800), (42, 71752),

Gene: Daikon_140 Start: 72592, Stop: 72080, Start Num: 16
Candidate Starts for Daikon_140:
(Start: 12 @72628 has 51 MA's), (Start: 15 @72601 has 1 MA's), (Start: 16 @72592 has 76 MA's), (20, 72502), (21, 72499), (25, 72451), (27, 72442), (28, 72427), (29, 72418), (30, 72403), (39, 72208), (40, 72187), (42, 72139),

Gene: DoctorDiddles_135 Start: 71713, Stop: 71201, Start Num: 16
Candidate Starts for DoctorDiddles_135:
(Start: 12 @71749 has 51 MA's), (Start: 15 @71722 has 1 MA's), (Start: 16 @71713 has 76 MA's), (20, 71623), (21, 71620), (25, 71572), (27, 71563), (28, 71548), (29, 71539), (30, 71524), (40, 71308), (42, 71260),

Gene: DrDrey_140 Start: 75021, Stop: 74473, Start Num: 12
Candidate Starts for DrDrey_140:
(Start: 12 @75021 has 51 MA's), (Start: 15 @74994 has 1 MA's), (Start: 16 @74985 has 76 MA's), (20, 74895), (21, 74892), (25, 74844), (27, 74835), (28, 74820), (29, 74811), (30, 74796), (39, 74601), (40, 74580), (42, 74532),

Gene: Dumbo_138 Start: 72464, Stop: 71889, Start Num: 12

Candidate Starts for Dumbo_138:
(Start: 12 @72464 has 51 MA's), (Start: 15 @72437 has 1 MA's), (Start: 16 @72428 has 76 MA's), (22, 72323), (39, 72017), (40, 71996), (42, 71948),

Gene: Dusk_138 Start: 72992, Stop: 72444, Start Num: 12
Candidate Starts for Dusk_138:
(Start: 12 @72992 has 51 MA's), (Start: 15 @72965 has 1 MA's), (Start: 16 @72956 has 76 MA's), (20, 72866), (21, 72863), (25, 72815), (27, 72806), (28, 72791), (29, 72782), (30, 72767), (40, 72551), (42, 72503),

Gene: Easy2Say_139 Start: 73211, Stop: 72663, Start Num: 12
Candidate Starts for Easy2Say_139:
(Start: 12 @73211 has 51 MA's), (Start: 15 @73184 has 1 MA's), (Start: 16 @73175 has 76 MA's), (20, 73085), (21, 73082), (25, 73034), (27, 73025), (28, 73010), (29, 73001), (30, 72986), (40, 72770), (42, 72722),

Gene: Elite2014_137 Start: 72196, Stop: 71678, Start Num: 16
Candidate Starts for Elite2014_137:
(Start: 12 @72232 has 51 MA's), (Start: 15 @72205 has 1 MA's), (Start: 16 @72196 has 76 MA's), (22, 72091), (40, 71785), (41, 71749), (42, 71737),

Gene: Elph10_135 Start: 71543, Stop: 70995, Start Num: 12
Candidate Starts for Elph10_135:
(Start: 12 @71543 has 51 MA's), (Start: 15 @71516 has 1 MA's), (Start: 16 @71507 has 76 MA's), (20, 71417), (21, 71414), (25, 71366), (27, 71357), (28, 71342), (29, 71333), (30, 71318), (39, 71123), (40, 71102), (42, 71054),

Gene: Emmina_138 Start: 72127, Stop: 71615, Start Num: 16
Candidate Starts for Emmina_138:
(Start: 12 @72163 has 51 MA's), (Start: 15 @72136 has 1 MA's), (Start: 16 @72127 has 76 MA's), (20, 72037), (21, 72034), (25, 71986), (27, 71977), (28, 71962), (29, 71953), (30, 71938), (38, 71926), (39, 71743), (40, 71722), (42, 71674),

Gene: Eureka_137 Start: 73079, Stop: 72543, Start Num: 12
Candidate Starts for Eureka_137:
(Start: 12 @73079 has 51 MA's), (Start: 15 @73052 has 1 MA's), (Start: 16 @73043 has 76 MA's), (22, 72938), (42, 72602),

Gene: FairyPath_139 Start: 73178, Stop: 72645, Start Num: 16
Candidate Starts for FairyPath_139:
(Start: 12 @73214 has 51 MA's), (Start: 15 @73187 has 1 MA's), (Start: 16 @73178 has 76 MA's), (22, 73073), (39, 72773), (40, 72752), (42, 72704),

Gene: Filch_139 Start: 72330, Stop: 71818, Start Num: 16
Candidate Starts for Filch_139:
(Start: 12 @72366 has 51 MA's), (Start: 15 @72339 has 1 MA's), (Start: 16 @72330 has 76 MA's), (20, 72240), (21, 72237), (25, 72189), (27, 72180), (28, 72165), (29, 72156), (30, 72141), (40, 71925), (42, 71877),

Gene: FireRed_140 Start: 73107, Stop: 72556, Start Num: 12
Candidate Starts for FireRed_140:
(Start: 12 @73107 has 51 MA's), (Start: 15 @73080 has 1 MA's), (Start: 16 @73071 has 76 MA's), (20, 72978), (21, 72975), (25, 72927), (27, 72918), (28, 72903), (29, 72894), (30, 72879), (40, 72663), (42,

72615),

Gene: Flypotenuse_132 Start: 72173, Stop: 71649, Start Num: 16
Candidate Starts for Flypotenuse_132:
(Start: 12 @72209 has 51 MA's), (Start: 15 @72182 has 1 MA's), (Start: 16 @72173 has 76 MA's), (25, 72032), (27, 72023), (28, 72008), (29, 71999), (30, 71990), (31, 71987), (37, 71972), (40, 71756), (42, 71708),

Gene: FoghornLeghorn_134 Start: 71266, Stop: 70766, Start Num: 16
Candidate Starts for FoghornLeghorn_134:
(Start: 12 @71302 has 51 MA's), (Start: 15 @71275 has 1 MA's), (Start: 16 @71266 has 76 MA's), (22, 71161), (40, 70873), (42, 70825),

Gene: Gator_138 Start: 73238, Stop: 72735, Start Num: 16
Candidate Starts for Gator_138:
(Start: 12 @73274 has 51 MA's), (Start: 15 @73247 has 1 MA's), (Start: 16 @73238 has 76 MA's), (20, 73145), (21, 73142), (25, 73094), (27, 73085), (28, 73070), (29, 73061), (38, 73046), (42, 72794),

Gene: Gemini_143 Start: 73226, Stop: 72714, Start Num: 16
Candidate Starts for Gemini_143:
(Start: 12 @73262 has 51 MA's), (Start: 15 @73235 has 1 MA's), (Start: 16 @73226 has 76 MA's), (20, 73136), (21, 73133), (25, 73085), (27, 73076), (28, 73061), (29, 73052), (30, 73037), (40, 72821), (42, 72773),

Gene: Glexan_140 Start: 73385, Stop: 72885, Start Num: 16
Candidate Starts for Glexan_140:
(Start: 12 @73421 has 51 MA's), (Start: 15 @73394 has 1 MA's), (Start: 16 @73385 has 76 MA's), (20, 73292), (21, 73289), (25, 73241), (27, 73232), (28, 73217), (29, 73208), (42, 72944),

Gene: Goku_136 Start: 73388, Stop: 72852, Start Num: 12
Candidate Starts for Goku_136:
(Start: 12 @73388 has 51 MA's), (Start: 15 @73361 has 1 MA's), (Start: 16 @73352 has 76 MA's), (22, 73247), (42, 72911),

Gene: GoldenSpark_142 Start: 72709, Stop: 72197, Start Num: 16
Candidate Starts for GoldenSpark_142:
(Start: 12 @72745 has 51 MA's), (Start: 15 @72718 has 1 MA's), (Start: 16 @72709 has 76 MA's), (20, 72619), (21, 72616), (25, 72568), (27, 72559), (28, 72544), (29, 72535), (30, 72520), (40, 72304), (42, 72256),

Gene: Goldilocks_143 Start: 73341, Stop: 72793, Start Num: 12
Candidate Starts for Goldilocks_143:
(Start: 12 @73341 has 51 MA's), (Start: 15 @73314 has 1 MA's), (Start: 16 @73305 has 76 MA's), (20, 73215), (21, 73212), (25, 73164), (27, 73155), (28, 73140), (29, 73131), (30, 73116), (40, 72900), (42, 72852),

Gene: GooberAzure_140 Start: 72745, Stop: 72197, Start Num: 12
Candidate Starts for GooberAzure_140:
(Start: 12 @72745 has 51 MA's), (Start: 15 @72718 has 1 MA's), (Start: 16 @72709 has 76 MA's), (20, 72619), (21, 72616), (25, 72568), (27, 72559), (28, 72544), (29, 72535), (30, 72520), (40, 72304), (42, 72256),

Gene: Greep_141 Start: 73518, Stop: 73018, Start Num: 16

Candidate Starts for Greep_141:
(Start: 12 @73554 has 51 MA's), (Start: 15 @73527 has 1 MA's), (Start: 16 @73518 has 76 MA's), (22, 73413), (40, 73125), (42, 73077),

Gene: HanKaySha_136 Start: 72663, Stop: 72151, Start Num: 16
Candidate Starts for HanKaySha_136:
(Start: 12 @72699 has 51 MA's), (Start: 15 @72672 has 1 MA's), (Start: 16 @72663 has 76 MA's), (20, 72573), (21, 72570), (25, 72522), (27, 72513), (28, 72498), (29, 72489), (30, 72474), (40, 72258), (42, 72210),

Gene: Harella_143 Start: 73901, Stop: 73401, Start Num: 16
Candidate Starts for Harella_143:
(Start: 12 @73937 has 51 MA's), (Start: 15 @73910 has 1 MA's), (Start: 16 @73901 has 76 MA's), (20, 73808), (21, 73805), (25, 73757), (27, 73748), (28, 73733), (29, 73724), (42, 73460),

Gene: Henry_139 Start: 73691, Stop: 73143, Start Num: 12
Candidate Starts for Henry_139:
(Start: 12 @73691 has 51 MA's), (Start: 15 @73664 has 1 MA's), (Start: 16 @73655 has 76 MA's), (20, 73565), (21, 73562), (25, 73514), (27, 73505), (28, 73490), (29, 73481), (30, 73466), (39, 73271), (40, 73250), (42, 73202),

Gene: Highbury_133 Start: 70630, Stop: 70091, Start Num: 16
Candidate Starts for Highbury_133:
(Start: 12 @70666 has 51 MA's), (Start: 15 @70639 has 1 MA's), (Start: 16 @70630 has 76 MA's), (22, 70525), (40, 70198), (41, 70162), (42, 70150),

Gene: Holt_143 Start: 73492, Stop: 72980, Start Num: 16
Candidate Starts for Holt_143:
(Start: 12 @73528 has 51 MA's), (Start: 15 @73501 has 1 MA's), (Start: 16 @73492 has 76 MA's), (20, 73402), (21, 73399), (25, 73351), (27, 73342), (28, 73327), (29, 73318), (30, 73303), (40, 73087), (42, 73039),

Gene: Hoonter_140 Start: 72750, Stop: 72238, Start Num: 16
Candidate Starts for Hoonter_140:
(Start: 12 @72786 has 51 MA's), (Start: 15 @72759 has 1 MA's), (Start: 16 @72750 has 76 MA's), (20, 72660), (21, 72657), (25, 72609), (27, 72600), (28, 72585), (29, 72576), (30, 72561), (40, 72345), (42, 72297),

Gene: Hopey_135 Start: 72781, Stop: 72245, Start Num: 12
Candidate Starts for Hopey_135:
(Start: 12 @72781 has 51 MA's), (Start: 15 @72754 has 1 MA's), (Start: 16 @72745 has 76 MA's), (22, 72640), (39, 72373), (40, 72352), (42, 72304),

Gene: HufflyPuff_139 Start: 73333, Stop: 72782, Start Num: 12
Candidate Starts for HufflyPuff_139:
(Start: 12 @73333 has 51 MA's), (Start: 15 @73306 has 1 MA's), (Start: 16 @73297 has 76 MA's), (20, 73204), (21, 73201), (25, 73153), (27, 73144), (28, 73129), (29, 73120), (30, 73105), (40, 72889), (42, 72841),

Gene: IHOP_141 Start: 72681, Stop: 72181, Start Num: 16
Candidate Starts for IHOP_141:
(Start: 12 @72717 has 51 MA's), (Start: 15 @72690 has 1 MA's), (Start: 16 @72681 has 76 MA's), (22, 72576), (39, 72309), (40, 72288), (42, 72240),

Gene: Inca_136 Start: 70713, Stop: 70201, Start Num: 16
Candidate Starts for Inca_136:
(Start: 12 @70749 has 51 MA's), (Start: 15 @70722 has 1 MA's), (Start: 16 @70713 has 76 MA's), (20, 70623), (21, 70620), (25, 70572), (27, 70563), (28, 70548), (29, 70539), (30, 70524), (39, 70329), (40, 70308), (42, 70260),

Gene: JeTaime_135 Start: 72265, Stop: 71717, Start Num: 12
Candidate Starts for JeTaime_135:
(Start: 12 @72265 has 51 MA's), (Start: 15 @72238 has 1 MA's), (Start: 16 @72229 has 76 MA's), (20, 72139), (21, 72136), (25, 72088), (27, 72079), (28, 72064), (29, 72055), (30, 72040), (42, 71776),

Gene: Kanye_133 Start: 72745, Stop: 72257, Start Num: 16
Candidate Starts for Kanye_133:
(Start: 12 @72781 has 51 MA's), (Start: 15 @72754 has 1 MA's), (Start: 16 @72745 has 76 MA's), (20, 72655), (21, 72652), (25, 72604), (27, 72595), (28, 72580), (40, 72364), (42, 72316),

Gene: Kimchi_143 Start: 73406, Stop: 72918, Start Num: 16
Candidate Starts for Kimchi_143:
(Start: 12 @73442 has 51 MA's), (Start: 15 @73415 has 1 MA's), (Start: 16 @73406 has 76 MA's), (20, 73316), (21, 73313), (25, 73265), (27, 73256), (28, 73241), (40, 73025), (42, 72977),

Gene: Kostya_138 Start: 73350, Stop: 72814, Start Num: 12
Candidate Starts for Kostya_138:
(Start: 12 @73350 has 51 MA's), (Start: 15 @73323 has 1 MA's), (Start: 16 @73314 has 76 MA's), (20, 73221), (21, 73218), (25, 73170), (27, 73161), (28, 73146), (29, 73137), (40, 72921), (42, 72873),

Gene: Lilac_134 Start: 73243, Stop: 72695, Start Num: 12
Candidate Starts for Lilac_134:
(Start: 12 @73243 has 51 MA's), (Start: 15 @73216 has 1 MA's), (Start: 16 @73207 has 76 MA's), (20, 73117), (21, 73114), (25, 73066), (27, 73057), (29, 73033), (30, 73018), (42, 72754),

Gene: Lilizi_138 Start: 72937, Stop: 72425, Start Num: 16
Candidate Starts for Lilizi_138:
(Start: 12 @72973 has 51 MA's), (Start: 15 @72946 has 1 MA's), (Start: 16 @72937 has 76 MA's), (20, 72847), (21, 72844), (25, 72796), (27, 72787), (28, 72772), (29, 72763), (30, 72748), (40, 72532), (42, 72484),

Gene: Lilpickle_137 Start: 72196, Stop: 71678, Start Num: 16
Candidate Starts for Lilpickle_137:
(Start: 12 @72232 has 51 MA's), (Start: 15 @72205 has 1 MA's), (Start: 16 @72196 has 76 MA's), (22, 72091), (40, 71785), (41, 71749), (42, 71737),

Gene: Livelaughbron_136 Start: 73187, Stop: 72687, Start Num: 16
Candidate Starts for Livelaughbron_136:
(Start: 12 @73223 has 51 MA's), (Start: 15 @73196 has 1 MA's), (Start: 16 @73187 has 76 MA's), (22, 73082), (40, 72794), (42, 72746),

Gene: MISSy_139 Start: 73104, Stop: 72592, Start Num: 16
Candidate Starts for MISSy_139:
(Start: 12 @73140 has 51 MA's), (Start: 15 @73113 has 1 MA's), (Start: 16 @73104 has 76 MA's), (20, 73014), (21, 73011), (25, 72963), (27, 72954), (28, 72939), (29, 72930), (37, 72915), (40, 72699), (42, 72651),

Gene: MPhalcon_138 Start: 72510, Stop: 72010, Start Num: 16
Candidate Starts for MPhalcon_138:
(Start: 12 @72546 has 51 MA's), (Start: 15 @72519 has 1 MA's), (Start: 16 @72510 has 76 MA's), (22, 72405), (40, 72117), (42, 72069),

Gene: MadamMonkfish_137 Start: 72198, Stop: 71686, Start Num: 16
Candidate Starts for MadamMonkfish_137:
(Start: 12 @72234 has 51 MA's), (Start: 15 @72207 has 1 MA's), (Start: 16 @72198 has 76 MA's), (20, 72108), (21, 72105), (25, 72057), (27, 72048), (28, 72033), (29, 72024), (30, 72009), (40, 71793), (42, 71745),

Gene: Manda_138 Start: 72746, Stop: 72126, Start Num: 16
Candidate Starts for Manda_138:
(Start: 12 @72782 has 51 MA's), (Start: 15 @72755 has 1 MA's), (Start: 16 @72746 has 76 MA's), (19, 72656), (23, 72602), (39, 72254), (40, 72233), (42, 72185),

Gene: Marshmallow_138 Start: 73383, Stop: 72871, Start Num: 16
Candidate Starts for Marshmallow_138:
(Start: 12 @73419 has 51 MA's), (Start: 15 @73392 has 1 MA's), (Start: 16 @73383 has 76 MA's), (20, 73293), (21, 73290), (25, 73242), (27, 73233), (28, 73218), (29, 73209), (30, 73194), (40, 72978), (42, 72930),

Gene: Maxxinista_139 Start: 72139, Stop: 71639, Start Num: 16
Candidate Starts for Maxxinista_139:
(Start: 12 @72175 has 51 MA's), (Start: 15 @72148 has 1 MA's), (Start: 16 @72139 has 76 MA's), (22, 72034), (39, 71767), (40, 71746), (42, 71698),

Gene: Mindy_141 Start: 73058, Stop: 72570, Start Num: 16
Candidate Starts for Mindy_141:
(Start: 12 @73094 has 51 MA's), (Start: 15 @73067 has 1 MA's), (Start: 16 @73058 has 76 MA's), (20, 72968), (21, 72965), (25, 72917), (27, 72908), (28, 72893), (39, 72698), (40, 72677), (42, 72629),

Gene: Miniwave_131 Start: 72247, Stop: 71735, Start Num: 16
Candidate Starts for Miniwave_131:
(Start: 12 @72283 has 51 MA's), (Start: 15 @72256 has 1 MA's), (Start: 16 @72247 has 76 MA's), (20, 72157), (21, 72154), (25, 72106), (27, 72097), (28, 72082), (29, 72073), (30, 72058), (40, 71842), (42, 71794),

Gene: Misfit_137 Start: 73420, Stop: 72884, Start Num: 12
Candidate Starts for Misfit_137:
(Start: 12 @73420 has 51 MA's), (Start: 15 @73393 has 1 MA's), (Start: 16 @73384 has 76 MA's), (22, 73279), (40, 72991), (42, 72943),

Gene: Moldemort_140 Start: 72817, Stop: 72305, Start Num: 16
Candidate Starts for Moldemort_140:
(Start: 12 @72853 has 51 MA's), (Start: 15 @72826 has 1 MA's), (Start: 16 @72817 has 76 MA's), (20, 72727), (21, 72724), (25, 72676), (27, 72667), (28, 72652), (29, 72643), (30, 72628), (40, 72412), (42, 72364),

Gene: MollyToe_131 Start: 70393, Stop: 69893, Start Num: 16
Candidate Starts for MollyToe_131:

(Start: 12 @70429 has 51 MA's), (Start: 15 @70402 has 1 MA's), (Start: 16 @70393 has 76 MA's), (22, 70288), (40, 70000), (42, 69952),

Gene: Mosby_134 Start: 71784, Stop: 71248, Start Num: 12
Candidate Starts for Mosby_134:
(Start: 12 @71784 has 51 MA's), (Start: 15 @71757 has 1 MA's), (Start: 16 @71748 has 76 MA's), (22, 71643), (40, 71355), (42, 71307),

Gene: Murica_141 Start: 74364, Stop: 73816, Start Num: 12
Candidate Starts for Murica_141:
(Start: 12 @74364 has 51 MA's), (Start: 15 @74337 has 1 MA's), (Start: 16 @74328 has 76 MA's), (20, 74238), (21, 74235), (25, 74187), (27, 74178), (28, 74163), (29, 74154), (37, 74139), (40, 73923), (42, 73875),

Gene: Murphy_136 Start: 72561, Stop: 72013, Start Num: 12
Candidate Starts for Murphy_136:
(Start: 12 @72561 has 51 MA's), (Start: 15 @72534 has 1 MA's), (Start: 16 @72525 has 76 MA's), (20, 72435), (21, 72432), (25, 72384), (27, 72375), (28, 72360), (29, 72351), (30, 72336), (40, 72120), (42, 72072),

Gene: Myrale_139 Start: 74025, Stop: 73513, Start Num: 16
Candidate Starts for Myrale_139:
(Start: 12 @74061 has 51 MA's), (Start: 15 @74034 has 1 MA's), (Start: 16 @74025 has 76 MA's), (20, 73935), (21, 73932), (25, 73884), (27, 73875), (28, 73860), (29, 73851), (30, 73836), (39, 73641), (40, 73620), (42, 73572),

Gene: Nala_139 Start: 72835, Stop: 72299, Start Num: 12
Candidate Starts for Nala_139:
(Start: 12 @72835 has 51 MA's), (Start: 15 @72808 has 1 MA's), (Start: 16 @72799 has 76 MA's), (22, 72694), (39, 72427), (40, 72406), (42, 72358),

Gene: Nimrod_136 Start: 73298, Stop: 72798, Start Num: 16
Candidate Starts for Nimrod_136:
(Start: 12 @73334 has 51 MA's), (Start: 15 @73307 has 1 MA's), (Start: 16 @73298 has 76 MA's), (22, 73193), (39, 72926), (40, 72905), (42, 72857),

Gene: NoSleep_136 Start: 72076, Stop: 71564, Start Num: 16
Candidate Starts for NoSleep_136:
(Start: 12 @72112 has 51 MA's), (Start: 15 @72085 has 1 MA's), (Start: 16 @72076 has 76 MA's), (20, 71986), (21, 71983), (25, 71935), (27, 71926), (28, 71911), (29, 71902), (30, 71887), (39, 71692), (40, 71671), (42, 71623),

Gene: NonchalantPear_138 Start: 71802, Stop: 71290, Start Num: 16
Candidate Starts for NonchalantPear_138:
(Start: 12 @71838 has 51 MA's), (Start: 15 @71811 has 1 MA's), (Start: 16 @71802 has 76 MA's), (20, 71712), (21, 71709), (25, 71661), (27, 71652), (28, 71637), (29, 71628), (30, 71613), (40, 71397), (42, 71349),

Gene: OrionPax_133 Start: 71756, Stop: 71244, Start Num: 16
Candidate Starts for OrionPax_133:
(Start: 12 @71792 has 51 MA's), (Start: 15 @71765 has 1 MA's), (Start: 16 @71756 has 76 MA's), (20, 71666), (21, 71663), (25, 71615), (27, 71606), (28, 71591), (29, 71582), (30, 71567), (40, 71351), (42, 71303),

Gene: PaddyBaddy_134 Start: 71781, Stop: 71281, Start Num: 16
Candidate Starts for PaddyBaddy_134:
(Start: 12 @71817 has 51 MA's), (Start: 15 @71790 has 1 MA's), (Start: 16 @71781 has 76 MA's), (22, 71676), (39, 71409), (40, 71388), (42, 71340),

Gene: Palpatine_137 Start: 73316, Stop: 72804, Start Num: 16
Candidate Starts for Palpatine_137:
(Start: 12 @73352 has 51 MA's), (Start: 15 @73325 has 1 MA's), (Start: 16 @73316 has 76 MA's), (20, 73226), (21, 73223), (25, 73175), (27, 73166), (28, 73151), (29, 73142), (37, 73127), (40, 72911), (42, 72863),

Gene: Paperbeatsrock_135 Start: 72961, Stop: 72413, Start Num: 12
Candidate Starts for Paperbeatsrock_135:
(Start: 12 @72961 has 51 MA's), (Start: 15 @72934 has 1 MA's), (Start: 16 @72925 has 76 MA's), (20, 72835), (21, 72832), (25, 72784), (27, 72775), (28, 72760), (29, 72751), (30, 72736), (40, 72520), (42, 72472),

Gene: Pat3_137 Start: 72541, Stop: 72029, Start Num: 16
Candidate Starts for Pat3_137:
(Start: 12 @72577 has 51 MA's), (Start: 15 @72550 has 1 MA's), (Start: 16 @72541 has 76 MA's), (20, 72451), (21, 72448), (25, 72400), (27, 72391), (28, 72376), (29, 72367), (30, 72352), (40, 72136), (42, 72088),

Gene: Petra64142_138 Start: 72988, Stop: 72473, Start Num: 16
Candidate Starts for Petra64142_138:
(Start: 12 @73024 has 51 MA's), (Start: 15 @72997 has 1 MA's), (Start: 16 @72988 has 76 MA's), (22, 72886), (39, 72601), (40, 72580), (42, 72532),

Gene: Phaja_141 Start: 72686, Stop: 72186, Start Num: 16
Candidate Starts for Phaja_141:
(Start: 12 @72722 has 51 MA's), (Start: 15 @72695 has 1 MA's), (Start: 16 @72686 has 76 MA's), (22, 72581), (39, 72314), (40, 72293), (42, 72245),

Gene: Pharsalus_135 Start: 73101, Stop: 72553, Start Num: 12
Candidate Starts for Pharsalus_135:
(Start: 12 @73101 has 51 MA's), (Start: 15 @73074 has 1 MA's), (Start: 16 @73065 has 76 MA's), (20, 72975), (21, 72972), (25, 72924), (27, 72915), (28, 72900), (29, 72891), (30, 72876), (40, 72660), (42, 72612),

Gene: PhatBacter_140 Start: 73107, Stop: 72556, Start Num: 12
Candidate Starts for PhatBacter_140:
(Start: 12 @73107 has 51 MA's), (Start: 15 @73080 has 1 MA's), (Start: 16 @73071 has 76 MA's), (20, 72978), (21, 72975), (25, 72927), (27, 72918), (28, 72903), (29, 72894), (30, 72879), (40, 72663), (42, 72615),

Gene: Phaux_139 Start: 73730, Stop: 73182, Start Num: 12
Candidate Starts for Phaux_139:
(Start: 12 @73730 has 51 MA's), (Start: 15 @73703 has 1 MA's), (Start: 16 @73694 has 76 MA's), (20, 73604), (21, 73601), (25, 73553), (27, 73544), (28, 73529), (29, 73520), (37, 73505), (40, 73289), (42, 73241),

Gene: Phrux_133 Start: 71579, Stop: 71031, Start Num: 12

Candidate Starts for Phrux_133:
(Start: 12 @71579 has 51 MA's), (Start: 15 @71552 has 1 MA's), (Start: 16 @71543 has 76 MA's), (20, 71453), (21, 71450), (25, 71402), (27, 71393), (28, 71378), (29, 71369), (30, 71354), (40, 71138), (42, 71090),

Gene: Policronamos_137 Start: 73398, Stop: 72886, Start Num: 16
Candidate Starts for Policronamos_137:
(Start: 12 @73434 has 51 MA's), (Start: 15 @73407 has 1 MA's), (Start: 16 @73398 has 76 MA's), (20, 73308), (21, 73305), (25, 73257), (27, 73248), (28, 73233), (29, 73224), (37, 73209), (40, 72993), (42, 72945),

Gene: Porky_139 Start: 73144, Stop: 72632, Start Num: 16
Candidate Starts for Porky_139:
(Start: 12 @73180 has 51 MA's), (Start: 15 @73153 has 1 MA's), (Start: 16 @73144 has 76 MA's), (20, 73054), (21, 73051), (25, 73003), (27, 72994), (28, 72979), (29, 72970), (30, 72955), (38, 72943), (39, 72760), (40, 72739), (42, 72691),

Gene: Ptowny_130 Start: 70513, Stop: 70001, Start Num: 16
Candidate Starts for Ptowny_130:
(Start: 12 @70549 has 51 MA's), (Start: 15 @70522 has 1 MA's), (Start: 16 @70513 has 76 MA's), (20, 70423), (21, 70420), (25, 70372), (27, 70363), (28, 70348), (29, 70339), (30, 70324), (40, 70108), (42, 70060),

Gene: Pumpkin_137 Start: 71843, Stop: 71307, Start Num: 12
Candidate Starts for Pumpkin_137:
(Start: 12 @71843 has 51 MA's), (Start: 15 @71816 has 1 MA's), (Start: 16 @71807 has 76 MA's), (22, 71702), (39, 71435), (40, 71414), (42, 71366),

Gene: Quallification_138 Start: 73409, Stop: 72891, Start Num: 16
Candidate Starts for Quallification_138:
(Start: 12 @73445 has 51 MA's), (Start: 15 @73418 has 1 MA's), (Start: 16 @73409 has 76 MA's), (22, 73304), (40, 72998), (42, 72950),

Gene: Rakim_139 Start: 72948, Stop: 72400, Start Num: 12
Candidate Starts for Rakim_139:
(Start: 12 @72948 has 51 MA's), (Start: 15 @72921 has 1 MA's), (Start: 16 @72912 has 76 MA's), (20, 72822), (21, 72819), (25, 72771), (27, 72762), (28, 72747), (29, 72738), (30, 72723), (39, 72528), (40, 72507), (42, 72459),

Gene: Rimmer_134 Start: 72278, Stop: 71766, Start Num: 16
Candidate Starts for Rimmer_134:
(Start: 12 @72314 has 51 MA's), (Start: 15 @72287 has 1 MA's), (Start: 16 @72278 has 76 MA's), (20, 72188), (21, 72185), (25, 72137), (27, 72128), (28, 72113), (29, 72104), (30, 72089), (39, 71894), (40, 71873), (42, 71825),

Gene: RiverMonster_136 Start: 72438, Stop: 71926, Start Num: 16
Candidate Starts for RiverMonster_136:
(Start: 12 @72474 has 51 MA's), (Start: 15 @72447 has 1 MA's), (Start: 16 @72438 has 76 MA's), (20, 72348), (21, 72345), (25, 72297), (27, 72288), (28, 72273), (29, 72264), (30, 72249), (40, 72033), (42, 71985),

Gene: Saints25_133 Start: 70630, Stop: 70091, Start Num: 16
Candidate Starts for Saints25_133:

(Start: 12 @70666 has 51 MA's), (Start: 15 @70639 has 1 MA's), (Start: 16 @70630 has 76 MA's), (22, 70525), (40, 70198), (41, 70162), (42, 70150),

Gene: Sassay_132 Start: 70746, Stop: 70210, Start Num: 12
Candidate Starts for Sassay_132:
(Start: 12 @70746 has 51 MA's), (Start: 15 @70719 has 1 MA's), (Start: 16 @70710 has 76 MA's), (22, 70605), (40, 70317), (42, 70269),

Gene: ShamWow_136 Start: 73279, Stop: 72743, Start Num: 12
Candidate Starts for ShamWow_136:
(Start: 12 @73279 has 51 MA's), (Start: 15 @73252 has 1 MA's), (Start: 16 @73243 has 76 MA's), (22, 73138), (40, 72850), (42, 72802),

Gene: ShereKhan_137 Start: 73625, Stop: 73137, Start Num: 16
Candidate Starts for ShereKhan_137:
(Start: 12 @73661 has 51 MA's), (Start: 15 @73634 has 1 MA's), (Start: 16 @73625 has 76 MA's), (20, 73535), (21, 73532), (25, 73484), (27, 73475), (28, 73460), (39, 73265), (40, 73244), (42, 73196),

Gene: Simpliphy_136 Start: 72045, Stop: 71497, Start Num: 12
Candidate Starts for Simpliphy_136:
(Start: 12 @72045 has 51 MA's), (Start: 15 @72018 has 1 MA's), (Start: 16 @72009 has 76 MA's), (20, 71919), (21, 71916), (25, 71868), (27, 71859), (28, 71844), (29, 71835), (30, 71820), (40, 71604), (42, 71556),

Gene: SirDuracell_140 Start: 73458, Stop: 72892, Start Num: 12
Candidate Starts for SirDuracell_140:
(Start: 12 @73458 has 51 MA's), (Start: 15 @73431 has 1 MA's), (Start: 16 @73422 has 76 MA's), (22, 73317), (39, 73020), (40, 72999), (42, 72951),

Gene: SophKB_135 Start: 72877, Stop: 72377, Start Num: 16
Candidate Starts for SophKB_135:
(Start: 12 @72913 has 51 MA's), (Start: 15 @72886 has 1 MA's), (Start: 16 @72877 has 76 MA's), (22, 72772), (39, 72505), (40, 72484), (42, 72436),

Gene: Sotrice96_142 Start: 73615, Stop: 73043, Start Num: 12
Candidate Starts for Sotrice96_142:
(Start: 12 @73615 has 51 MA's), (Start: 15 @73588 has 1 MA's), (Start: 16 @73579 has 76 MA's), (20, 73489), (21, 73486), (25, 73438), (27, 73429), (28, 73414), (29, 73405), (30, 73390), (32, 73381), (33, 73366), (42, 73102),

Gene: Stank_141 Start: 73502, Stop: 72990, Start Num: 16
Candidate Starts for Stank_141:
(Start: 12 @73538 has 51 MA's), (Start: 15 @73511 has 1 MA's), (Start: 16 @73502 has 76 MA's), (20, 73412), (21, 73409), (25, 73361), (27, 73352), (28, 73337), (29, 73328), (30, 73313), (40, 73097), (42, 73049),

Gene: Stark_135 Start: 72281, Stop: 71745, Start Num: 12
Candidate Starts for Stark_135:
(Start: 12 @72281 has 51 MA's), (Start: 15 @72254 has 1 MA's), (Start: 16 @72245 has 76 MA's), (22, 72140), (39, 71873), (40, 71852), (42, 71804),

Gene: StellaBean_134 Start: 73016, Stop: 72495, Start Num: 15
Candidate Starts for StellaBean_134:

(Start: 12 @73043 has 51 MA's), (Start: 15 @73016 has 1 MA's), (Start: 16 @73007 has 76 MA's), (20, 72917), (21, 72914), (25, 72866), (27, 72857), (28, 72842), (29, 72833), (30, 72818), (40, 72602), (42, 72554),

Gene: StolenFromERC_140 Start: 72847, Stop: 72335, Start Num: 16
Candidate Starts for StolenFromERC_140:
(Start: 12 @72883 has 51 MA's), (Start: 15 @72856 has 1 MA's), (Start: 16 @72847 has 76 MA's), (20, 72757), (21, 72754), (25, 72706), (27, 72697), (28, 72682), (29, 72673), (30, 72658), (40, 72442), (42, 72394),

Gene: StormChicken_139 Start: 73460, Stop: 72960, Start Num: 16
Candidate Starts for StormChicken_139:
(Start: 12 @73496 has 51 MA's), (Start: 15 @73469 has 1 MA's), (Start: 16 @73460 has 76 MA's), (22, 73355), (40, 73067), (42, 73019),

Gene: TBrady12_142 Start: 72939, Stop: 72427, Start Num: 16
Candidate Starts for TBrady12_142:
(Start: 12 @72975 has 51 MA's), (Start: 15 @72948 has 1 MA's), (Start: 16 @72939 has 76 MA's), (20, 72849), (21, 72846), (25, 72798), (27, 72789), (28, 72774), (29, 72765), (30, 72750), (42, 72486),

Gene: Tarkin_136 Start: 73526, Stop: 73002, Start Num: 12
Candidate Starts for Tarkin_136:
(Start: 12 @73526 has 51 MA's), (Start: 15 @73499 has 1 MA's), (Start: 16 @73490 has 76 MA's), (20, 73400), (21, 73397), (25, 73349), (27, 73340), (28, 73325), (40, 73109), (42, 73061),

Gene: TeamEdward_137 Start: 73114, Stop: 72578, Start Num: 12
Candidate Starts for TeamEdward_137:
(Start: 12 @73114 has 51 MA's), (Start: 15 @73087 has 1 MA's), (Start: 16 @73078 has 76 MA's), (22, 72973), (40, 72685), (42, 72637),

Gene: TeardropMSU_138 Start: 72538, Stop: 71990, Start Num: 12
Candidate Starts for TeardropMSU_138:
(Start: 12 @72538 has 51 MA's), (Start: 15 @72511 has 1 MA's), (Start: 16 @72502 has 76 MA's), (20, 72412), (21, 72409), (25, 72361), (27, 72352), (28, 72337), (29, 72328), (30, 72313), (40, 72097), (42, 72049),

Gene: Terminus_140 Start: 73420, Stop: 72884, Start Num: 12
Candidate Starts for Terminus_140:
(Start: 12 @73420 has 51 MA's), (Start: 15 @73393 has 1 MA's), (Start: 16 @73384 has 76 MA's), (22, 73279), (40, 72991), (42, 72943),

Gene: Thresher_139 Start: 73322, Stop: 72810, Start Num: 16
Candidate Starts for Thresher_139:
(Start: 12 @73358 has 51 MA's), (Start: 15 @73331 has 1 MA's), (Start: 16 @73322 has 76 MA's), (20, 73232), (21, 73229), (25, 73181), (27, 73172), (28, 73157), (29, 73148), (30, 73133), (39, 72938), (40, 72917), (42, 72869),

Gene: Tomaszewski_131 Start: 71922, Stop: 71422, Start Num: 16
Candidate Starts for Tomaszewski_131:
(Start: 12 @71958 has 51 MA's), (Start: 15 @71931 has 1 MA's), (Start: 16 @71922 has 76 MA's), (22, 71817), (40, 71529), (42, 71481),

Gene: Toto_134 Start: 73279, Stop: 72743, Start Num: 12

Candidate Starts for Toto_134:
(Start: 12 @73279 has 51 MA's), (Start: 15 @73252 has 1 MA's), (Start: 16 @73243 has 76 MA's), (22, 73138), (40, 72850), (42, 72802),

Gene: Traaww1_134 Start: 72348, Stop: 71824, Start Num: 16
Candidate Starts for Traaww1_134:
(Start: 12 @72384 has 51 MA's), (Start: 15 @72357 has 1 MA's), (Start: 16 @72348 has 76 MA's), (25, 72207), (27, 72198), (28, 72183), (29, 72174), (30, 72165), (31, 72162), (37, 72147), (40, 71931), (42, 71883),

Gene: Tuco_143 Start: 74597, Stop: 74049, Start Num: 12
Candidate Starts for Tuco_143:
(Start: 12 @74597 has 51 MA's), (Start: 15 @74570 has 1 MA's), (Start: 16 @74561 has 76 MA's), (20, 74471), (21, 74468), (25, 74420), (27, 74411), (28, 74396), (29, 74387), (30, 74372), (40, 74156), (42, 74108),

Gene: Ukulele_132 Start: 71842, Stop: 71306, Start Num: 12
Candidate Starts for Ukulele_132:
(Start: 12 @71842 has 51 MA's), (Start: 15 @71815 has 1 MA's), (Start: 16 @71806 has 76 MA's), (22, 71701), (39, 71434), (40, 71413), (42, 71365),

Gene: Wiggin_140 Start: 72516, Stop: 71968, Start Num: 12
Candidate Starts for Wiggin_140:
(Start: 12 @72516 has 51 MA's), (Start: 15 @72489 has 1 MA's), (Start: 16 @72480 has 76 MA's), (20, 72390), (21, 72387), (25, 72339), (27, 72330), (28, 72315), (29, 72306), (30, 72291), (40, 72075), (42, 72027),

Gene: Willez_135 Start: 71827, Stop: 71291, Start Num: 12
Candidate Starts for Willez_135:
(Start: 12 @71827 has 51 MA's), (Start: 15 @71800 has 1 MA's), (Start: 16 @71791 has 76 MA's), (22, 71686), (40, 71398), (42, 71350),

Gene: Xandras_138 Start: 72756, Stop: 72244, Start Num: 16
Candidate Starts for Xandras_138:
(Start: 12 @72792 has 51 MA's), (Start: 15 @72765 has 1 MA's), (Start: 16 @72756 has 76 MA's), (20, 72666), (21, 72663), (25, 72615), (27, 72606), (28, 72591), (29, 72582), (30, 72567), (40, 72351), (42, 72303),

Gene: YassJohnny_133 Start: 70972, Stop: 70460, Start Num: 16
Candidate Starts for YassJohnny_133:
(Start: 12 @71008 has 51 MA's), (Start: 15 @70981 has 1 MA's), (Start: 16 @70972 has 76 MA's), (20, 70882), (21, 70879), (25, 70831), (27, 70822), (28, 70807), (29, 70798), (37, 70783), (40, 70567), (42, 70519),

Gene: Youngblood_141 Start: 73147, Stop: 72611, Start Num: 12
Candidate Starts for Youngblood_141:
(Start: 12 @73147 has 51 MA's), (Start: 15 @73120 has 1 MA's), (Start: 16 @73111 has 76 MA's), (22, 73006), (40, 72718), (42, 72670),

Gene: xkcd_141 Start: 73760, Stop: 73248, Start Num: 16
Candidate Starts for xkcd_141:
(Start: 12 @73796 has 51 MA's), (Start: 15 @73769 has 1 MA's), (Start: 16 @73760 has 76 MA's), (20, 73670), (21, 73667), (25, 73619), (27, 73610), (28, 73595), (29, 73586), (30, 73571), (40, 73355), (42,

73307),