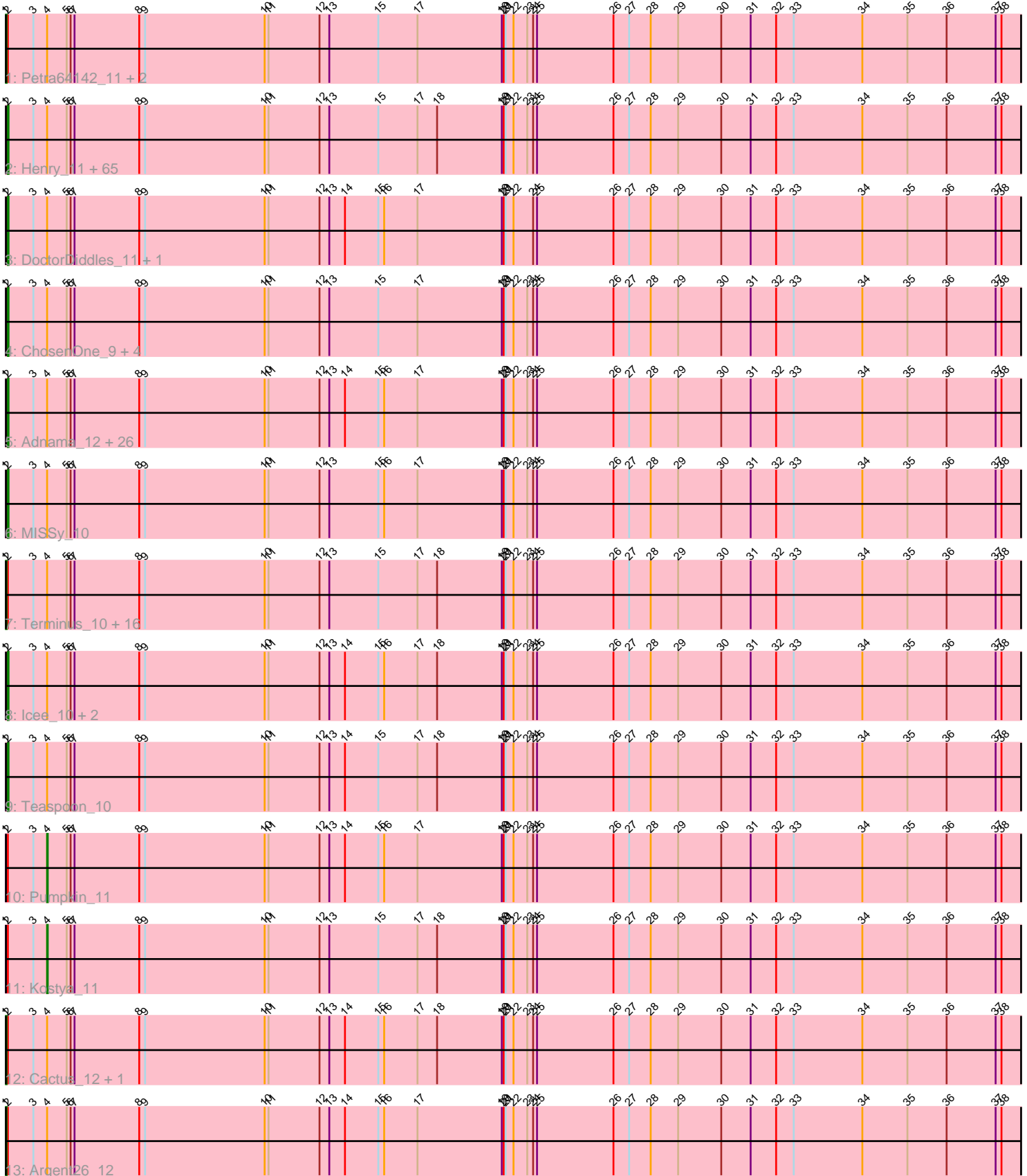


Pham 193829



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 193829 Report

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

Pham number 193829 has 130 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Petra64142_11, GoldenSpark_12, Lilpickle_9
- Track 2 : Henry_11, BigBubba_10, Palpatine_10, Bruin_10, IHOP_10, OrionPax_11, Willez_10, Hopey_11, HanKaySha_11, Qualification_12, Rakim_12, Bench_12, Balomoji_10, StellaBean_11, Miniwave_11, Command613_12, CrystalP_11, 244_11, Mindy_11, Tomaszewski_10, Mosby_10, Pat3_10, Moldemort_11, Marshmallow_11, Misfit_10, TBrady12_12, Phaux_9, Glexan_9, BaboJay_10, ShamWow_11, Sotrice96_11, Rimmer_10, Simpliphy_11, SophKB_11, Buck_10, Czystoczon1_11, NelitzaMV_11, Highbury_11, Phaja_10, Bask21_10, Kanye_12, TeardropMSU_10, Nimrod_10, SirDuracell_10, Youngblood_10, Gator_9, DrDrey_11, Tuco_11, ChotaBhai_10, Sassay_10, MadamMonkfish_10, Murphy_10, Policronamos_10, Inca_10, Dumbo_10, Myrale_11, BugsBunny_8, Tarkin_12, Murica_9, Nala_10, Cookies_11, Amao_11, NoSleep_11, xkcd_11, Saints25_11, RiverMonster_10
- Track 3 : DoctorDiddles_11, Holt_12
- Track 4 : ChosenOne_9, Elite2014_9, Hoonter_12, ShereKhan_12, Easy2Say_11
- Track 5 : Adnama_12, FireRed_10, Thresher_11, Lilizi_12, Filch_11, AmericanBeauty_12, Maxxinista_11, Stark_11, Cjw1_10, Ukulele_10, MPhalcon_10, Goku_11, Eureka_10, Stank_12, GooberAzure_12, Xandras_12, Wiggin_12, Elph10_11, Goldilocks_12, StolenFromERC_12, Phrux_10, PhatBacter_10, Gemini_12, Lilac_12, JeTaime_12, Gage_12, Kimchi_12
- Track 6 : MISSy_10
- Track 7 : Terminus_10, Flypotenuse_9, Dusk_10, Manda_10, YassJohnny_11, ABCat_10, Emmina_10, BilboSwaggins_11, Toto_11, Paperbeatsrock_12, Contagion_10, HuffyPuff_9, Porky_9, Harella_9, BadStone_10, Pharsalus_11, Daikon_9
- Track 8 : Icee_10, Traaww1_9, Asriel_10
- Track 9 : Teaspoon_10
- Track 10 : Pumpkin_11
- Track 11 : Kostya_11
- Track 12 : Cactus_12, Barbarian_10
- Track 13 : Argent26_12

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

The start number called the most often in the published annotations is 2, it was called in 101 of the 123 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_11, Adnama_12, Amao_11, AmericanBeauty_12, Asriel_10, BaboJay_10, Balomoji_10, Bask21_10, Bench_12, BigBubba_10, Bruin_10, Buck_10, BugsBunny_8, ChosenOne_9, ChotaBhai_10, Cjw1_10, Command613_12, Cookies_11, CrystalP_11, Czyszczo1_11, DoctorDiddles_11, DrDrey_11, Dumbo_10, Easy2Say_11, Elite2014_9, Elph10_11, Eureka_10, Filch_11, FireRed_10, Gage_12, Gator_9, Gemini_12, Glexan_9, Goku_11, Goldilocks_12, GooberAzure_12, HanKaySha_11, Henry_11, Highbury_11, Holt_12, Hoonter_12, Hopey_11, IHOP_10, Icee_10, Inca_10, JeTaimie_12, Kanye_12, Kimchi_12, Lilac_12, Lilizi_12, MISSy_10, MPhalcon_10, MadamMonkfish_10, Marshmallow_11, Maxxinista_11, Mindy_11, Miniwave_11, Misfit_10, Moldemort_11, Mosby_10, Murica_9, Murphy_10, Myrale_11, Nala_10, NelitzaMV_11, Nimrod_10, NoSleep_11, OrionPax_11, Palpatine_10, Pat3_10, Phaja_10, PhatBacter_10, Phaux_9, Phrux_10, Policronamos_10, Quallification_12, Rakim_12, Rimmer_10, RiverMonster_10, Saints25_11, Sassay_10, ShamWow_11, ShereKhan_12, Simpliphy_11, SirDuracell_10, SophKB_11, Sotrice96_11, Stank_12, Stark_11, StellaBean_11, StolenFromERC_12, TBrady12_12, Tarkin_12, TeardropMSU_10, Teaspoon_10, Thresher_11, Tomaszewski_10, Traaww1_9, Tuco_11, Ukulele_10, Wiggin_12, Willez_10, Xandras_12, Youngblood_10, xkcd_11,

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

- ABCat_10, Argent26_12, BadStone_10, Barbarian_10, BilboSwaggins_11, Cactus_12, Contagion_10, Daikon_9, Dusk_10, Emmina_10, Flypotenuse_9, GoldenSpark_12, Harella_9, HufflyPuff_9, Kostya_11, Lilpickle_9, Manda_10, Paperbeatsrock_12, Petra64142_11, Pharsalus_11, Porky_9, Pumpkin_11, Terminus_10, Toto_11, YassJohnny_11,

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

-

Summary by start number:

Start 1:

- Found in 130 of 130 (100.0%) of genes in pham
- Manual Annotations of this start: 20 of 123
- Called 17.7% of time when present
- Phage (with cluster) where this start called: ABCat_10 (E), Argent26_12 (E), BadStone_10 (E), Barbarian_10 (E), BilboSwaggins_11 (E), Cactus_12 (E), Contagion_10 (E), Daikon_9 (E), Dusk_10 (E), Emmina_10 (E), Flypotenuse_9 (E), GoldenSpark_12 (E), Harella_9 (E), HufflyPuff_9 (E), Lilpickle_9 (E), Manda_10 (E), Paperbeatsrock_12 (E), Petra64142_11 (E), Pharsalus_11 (E), Porky_9 (E), Terminus_10 (E), Toto_11 (E), YassJohnny_11 (E),

Start 2:

- Found in 130 of 130 (100.0%) of genes in pham
- Manual Annotations of this start: 101 of 123
- Called 80.8% of time when present
- Phage (with cluster) where this start called: 244_11 (E), Adnama_12 (E), Amao_11 (E), AmericanBeauty_12 (E), Asriel_10 (E), BaboJay_10 (E), Balomoji_10 (E), Bask21_10 (E), Bench_12 (E), BigBubba_10 (E), Bruin_10 (E), Buck_10 (E),

BugsBunny_8 (E), ChosenOne_9 (E), ChotaBhai_10 (E), Cjw1_10 (E), Command613_12 (E), Cookies_11 (E), CrystalP_11 (E), Czystczon1_11 (E), DoctorDiddles_11 (E), DrDrey_11 (E), Dumbo_10 (E), Easy2Say_11 (E), Elite2014_9 (E), Elph10_11 (E), Eureka_10 (E), Filch_11 (E), FireRed_10 (E), Gage_12 (E), Gator_9 (E), Gemini_12 (E), Glexan_9 (E), Goku_11 (E), Goldilocks_12 (E), GooberAzure_12 (E), HankKaySha_11 (E), Henry_11 (E), Highbury_11 (E), Holt_12 (E), Hoonter_12 (E), Hopey_11 (E), IHOP_10 (E), Icee_10 (E), Inca_10 (E), JeTaimie_12 (E), Kanye_12 (E), Kimchi_12 (E), Lilac_12 (E), Lilizi_12 (E), MISSy_10 (E), MPhalcon_10 (E), MadamMonkfish_10 (E), Marshmallow_11 (E), Maxxinista_11 (E), Mindy_11 (E), Miniwave_11 (E), Misfit_10 (E), Moldemort_11 (E), Mosby_10 (E), Murica_9 (E), Murphy_10 (E), Myrale_11 (E), Nala_10 (E), NelitzaMV_11 (E), Nimrod_10 (E), NoSleep_11 (E), OrionPax_11 (E), Palpatine_10 (E), Pat3_10 (E), Phaja_10 (E), PhatBacter_10 (E), Phaux_9 (E), Phrux_10 (E), Policronamos_10 (E), Quallification_12 (E), Rakim_12 (E), Rimmer_10 (E), RiverMonster_10 (E), Saints25_11 (E), Sassay_10 (E), ShamWow_11 (E), ShereKhan_12 (E), Simpliphy_11 (E), SirDuracell_10 (E), SophKB_11 (E), Sotrice96_11 (E), Stank_12 (E), Stark_11 (E), StellaBean_11 (E), StolenFromERC_12 (E), TBrady12_12 (E), Tarkin_12 (E), TeardropMSU_10 (E), Teaspoon_10 (E), Thresher_11 (E), Tomaszewski_10 (E), Traaww1_9 (E), Tuco_11 (E), Ukulele_10 (E), Wiggin_12 (E), Willez_10 (E), Xandras_12 (E), Youngblood_10 (E), xkcd_11 (E),

Start 4:

- Found in 130 of 130 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 123
- Called 1.5% of time when present
- Phage (with cluster) where this start called: Kostya_11 (E), Pumpkin_11 (E),

Summary by clusters:

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 1 was manually annotated 20 times for cluster E.
- Start number 2 was manually annotated 101 times for cluster E.
- Start number 4 was manually annotated 2 times for cluster E.

Gene Information:

Gene: 244_11 Start: 4167, Stop: 5723, Start Num: 2

Candidate Starts for 244_11:

(Start: 1 @4164 has 20 MA's), (Start: 2 @4167 has 101 MA's), (3, 4206), (Start: 4 @4227 has 2 MA's), (5, 4257), (6, 4263), (7, 4269), (8, 4368), (9, 4377), (10, 4560), (11, 4566), (12, 4644), (13, 4659), (15, 4734), (17, 4794), (18, 4824), (19, 4923), (20, 4926), (21, 4929), (22, 4941), (23, 4962), (24, 4971), (25, 4977), (26, 5094), (27, 5118), (28, 5151), (29, 5193), (30, 5259), (31, 5304), (32, 5343), (33, 5370), (34, 5475), (35, 5544), (36, 5604), (37, 5679), (38, 5688),

Gene: ABCat_10 Start: 5183, Stop: 6742, Start Num: 1

Candidate Starts for ABCat_10:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990),

(25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Adnama_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Adnama_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Amao_11 Start: 4193, Stop: 5749, Start Num: 2

Candidate Starts for Amao_11:

(Start: 1 @4190 has 20 MA's), (Start: 2 @4193 has 101 MA's), (3, 4232), (Start: 4 @4253 has 2 MA's), (5, 4283), (6, 4289), (7, 4295), (8, 4394), (9, 4403), (10, 4586), (11, 4592), (12, 4670), (13, 4685), (15, 4760), (17, 4820), (18, 4850), (19, 4949), (20, 4952), (21, 4955), (22, 4967), (23, 4988), (24, 4997), (25, 5003), (26, 5120), (27, 5144), (28, 5177), (29, 5219), (30, 5285), (31, 5330), (32, 5369), (33, 5396), (34, 5501), (35, 5570), (36, 5630), (37, 5705), (38, 5714),

Gene: AmericanBeauty_12 Start: 4396, Stop: 5952, Start Num: 2

Candidate Starts for AmericanBeauty_12:

(Start: 1 @4393 has 20 MA's), (Start: 2 @4396 has 101 MA's), (3, 4435), (Start: 4 @4456 has 2 MA's), (5, 4486), (6, 4492), (7, 4498), (8, 4597), (9, 4606), (10, 4789), (11, 4795), (12, 4873), (13, 4888), (14, 4912), (15, 4963), (16, 4972), (17, 5023), (19, 5152), (20, 5155), (21, 5158), (22, 5170), (23, 5191), (24, 5200), (25, 5206), (26, 5323), (27, 5347), (28, 5380), (29, 5422), (30, 5488), (31, 5533), (32, 5572), (33, 5599), (34, 5704), (35, 5773), (36, 5833), (37, 5908), (38, 5917),

Gene: Argent26_12 Start: 4396, Stop: 5955, Start Num: 1

Candidate Starts for Argent26_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Asriel_10 Start: 4058, Stop: 5614, Start Num: 2

Candidate Starts for Asriel_10:

(Start: 1 @4055 has 20 MA's), (Start: 2 @4058 has 101 MA's), (3, 4097), (Start: 4 @4118 has 2 MA's), (5, 4148), (6, 4154), (7, 4160), (8, 4259), (9, 4268), (10, 4451), (11, 4457), (12, 4535), (13, 4550), (14, 4574), (15, 4625), (16, 4634), (17, 4685), (18, 4715), (19, 4814), (20, 4817), (21, 4820), (22, 4832), (23, 4853), (24, 4862), (25, 4868), (26, 4985), (27, 5009), (28, 5042), (29, 5084), (30, 5150), (31, 5195), (32, 5234), (33, 5261), (34, 5366), (35, 5435), (36, 5495), (37, 5570), (38, 5579),

Gene: BaboJay_10 Start: 4717, Stop: 6273, Start Num: 2

Candidate Starts for BaboJay_10:

(Start: 1 @4714 has 20 MA's), (Start: 2 @4717 has 101 MA's), (3, 4756), (Start: 4 @4777 has 2 MA's), (5, 4807), (6, 4813), (7, 4819), (8, 4918), (9, 4927), (10, 5110), (11, 5116), (12, 5194), (13, 5209), (15, 5284), (17, 5344), (18, 5374), (19, 5473), (20, 5476), (21, 5479), (22, 5491), (23, 5512), (24, 5521), (25, 5527), (26, 5644), (27, 5668), (28, 5701), (29, 5743), (30, 5809), (31, 5854), (32, 5893), (33, 5920), (34, 6025), (35, 6094), (36, 6154), (37, 6229), (38, 6238),

Gene: BadStone_10 Start: 5183, Stop: 6742, Start Num: 1

Candidate Starts for BadStone_10:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Balomoji_10 Start: 4920, Stop: 6476, Start Num: 2

Candidate Starts for Balomoji_10:

(Start: 1 @4917 has 20 MA's), (Start: 2 @4920 has 101 MA's), (3, 4959), (Start: 4 @4980 has 2 MA's), (5, 5010), (6, 5016), (7, 5022), (8, 5121), (9, 5130), (10, 5313), (11, 5319), (12, 5397), (13, 5412), (15, 5487), (17, 5547), (18, 5577), (19, 5676), (20, 5679), (21, 5682), (22, 5694), (23, 5715), (24, 5724), (25, 5730), (26, 5847), (27, 5871), (28, 5904), (29, 5946), (30, 6012), (31, 6057), (32, 6096), (33, 6123), (34, 6228), (35, 6297), (36, 6357), (37, 6432), (38, 6441),

Gene: Barbarian_10 Start: 4055, Stop: 5614, Start Num: 1

Candidate Starts for Barbarian_10:

(Start: 1 @4055 has 20 MA's), (Start: 2 @4058 has 101 MA's), (3, 4097), (Start: 4 @4118 has 2 MA's), (5, 4148), (6, 4154), (7, 4160), (8, 4259), (9, 4268), (10, 4451), (11, 4457), (12, 4535), (13, 4550), (14, 4574), (15, 4625), (16, 4634), (17, 4685), (18, 4715), (19, 4814), (20, 4817), (21, 4820), (22, 4832), (23, 4853), (24, 4862), (25, 4868), (26, 4985), (27, 5009), (28, 5042), (29, 5084), (30, 5150), (31, 5195), (32, 5234), (33, 5261), (34, 5366), (35, 5435), (36, 5495), (37, 5570), (38, 5579),

Gene: Bask21_10 Start: 3853, Stop: 5409, Start Num: 2

Candidate Starts for Bask21_10:

(Start: 1 @3850 has 20 MA's), (Start: 2 @3853 has 101 MA's), (3, 3892), (Start: 4 @3913 has 2 MA's), (5, 3943), (6, 3949), (7, 3955), (8, 4054), (9, 4063), (10, 4246), (11, 4252), (12, 4330), (13, 4345), (15, 4420), (17, 4480), (18, 4510), (19, 4609), (20, 4612), (21, 4615), (22, 4627), (23, 4648), (24, 4657), (25, 4663), (26, 4780), (27, 4804), (28, 4837), (29, 4879), (30, 4945), (31, 4990), (32, 5029), (33, 5056), (34, 5161), (35, 5230), (36, 5290), (37, 5365), (38, 5374),

Gene: Bench_12 Start: 4473, Stop: 6029, Start Num: 2

Candidate Starts for Bench_12:

(Start: 1 @4470 has 20 MA's), (Start: 2 @4473 has 101 MA's), (3, 4512), (Start: 4 @4533 has 2 MA's), (5, 4563), (6, 4569), (7, 4575), (8, 4674), (9, 4683), (10, 4866), (11, 4872), (12, 4950), (13, 4965), (15, 5040), (17, 5100), (18, 5130), (19, 5229), (20, 5232), (21, 5235), (22, 5247), (23, 5268), (24, 5277), (25, 5283), (26, 5400), (27, 5424), (28, 5457), (29, 5499), (30, 5565), (31, 5610), (32, 5649), (33, 5676), (34, 5781), (35, 5850), (36, 5910), (37, 5985), (38, 5994),

Gene: BigBubba_10 Start: 3853, Stop: 5409, Start Num: 2

Candidate Starts for BigBubba_10:

(Start: 1 @3850 has 20 MA's), (Start: 2 @3853 has 101 MA's), (3, 3892), (Start: 4 @3913 has 2 MA's), (5, 3943), (6, 3949), (7, 3955), (8, 4054), (9, 4063), (10, 4246), (11, 4252), (12, 4330), (13, 4345), (15, 4420), (17, 4480), (18, 4510), (19, 4609), (20, 4612), (21, 4615), (22, 4627), (23, 4648), (24, 4657), (25, 4663), (26, 4780), (27, 4804), (28, 4837), (29, 4879), (30, 4945), (31, 4990), (32, 5029), (33, 5056), (34, 5161), (35, 5230), (36, 5290), (37, 5365), (38, 5374),

Gene: BilboSwaggins_11 Start: 5183, Stop: 6742, Start Num: 1

Candidate Starts for BilboSwaggins_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Bruin_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Bruin_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Buck_10 Start: 4852, Stop: 6408, Start Num: 2

Candidate Starts for Buck_10:

(Start: 1 @4849 has 20 MA's), (Start: 2 @4852 has 101 MA's), (3, 4891), (Start: 4 @4912 has 2 MA's), (5, 4942), (6, 4948), (7, 4954), (8, 5053), (9, 5062), (10, 5245), (11, 5251), (12, 5329), (13, 5344), (15, 5419), (17, 5479), (18, 5509), (19, 5608), (20, 5611), (21, 5614), (22, 5626), (23, 5647), (24, 5656), (25, 5662), (26, 5779), (27, 5803), (28, 5836), (29, 5878), (30, 5944), (31, 5989), (32, 6028), (33, 6055), (34, 6160), (35, 6229), (36, 6289), (37, 6364), (38, 6373),

Gene: BugsBunny_8 Start: 4353, Stop: 5909, Start Num: 2

Candidate Starts for BugsBunny_8:

(Start: 1 @4350 has 20 MA's), (Start: 2 @4353 has 101 MA's), (3, 4392), (Start: 4 @4413 has 2 MA's), (5, 4443), (6, 4449), (7, 4455), (8, 4554), (9, 4563), (10, 4746), (11, 4752), (12, 4830), (13, 4845), (15, 4920), (17, 4980), (18, 5010), (19, 5109), (20, 5112), (21, 5115), (22, 5127), (23, 5148), (24, 5157), (25, 5163), (26, 5280), (27, 5304), (28, 5337), (29, 5379), (30, 5445), (31, 5490), (32, 5529), (33, 5556), (34, 5661), (35, 5730), (36, 5790), (37, 5865), (38, 5874),

Gene: Cactus_12 Start: 4396, Stop: 5955, Start Num: 1

Candidate Starts for Cactus_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (18, 5056), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: ChosenOne_9 Start: 3619, Stop: 5175, Start Num: 2

Candidate Starts for ChosenOne_9:

(Start: 1 @3616 has 20 MA's), (Start: 2 @3619 has 101 MA's), (3, 3658), (Start: 4 @3679 has 2 MA's), (5, 3709), (6, 3715), (7, 3721), (8, 3820), (9, 3829), (10, 4012), (11, 4018), (12, 4096), (13, 4111), (15, 4186), (17, 4246), (19, 4375), (20, 4378), (21, 4381), (22, 4393), (23, 4414), (24, 4423), (25, 4429), (26, 4546), (27, 4570), (28, 4603), (29, 4645), (30, 4711), (31, 4756), (32, 4795), (33, 4822), (34, 4927), (35, 4996), (36, 5056), (37, 5131), (38, 5140),

Gene: ChotaBhai_10 Start: 3853, Stop: 5409, Start Num: 2

Candidate Starts for ChotaBhai_10:

(Start: 1 @3850 has 20 MA's), (Start: 2 @3853 has 101 MA's), (3, 3892), (Start: 4 @3913 has 2 MA's), (5, 3943), (6, 3949), (7, 3955), (8, 4054), (9, 4063), (10, 4246), (11, 4252), (12, 4330), (13, 4345), (15, 4420), (17, 4480), (18, 4510), (19, 4609), (20, 4612), (21, 4615), (22, 4627), (23, 4648), (24, 4657), (25, 4663), (26, 4780), (27, 4804), (28, 4837), (29, 4879), (30, 4945), (31, 4990), (32, 5029), (33, 5056), (34, 5161), (35, 5230), (36, 5290), (37, 5365), (38, 5374),

Gene: Cjw1_10 Start: 5169, Stop: 6725, Start Num: 2

Candidate Starts for Cjw1_10:

(Start: 1 @5166 has 20 MA's), (Start: 2 @5169 has 101 MA's), (3, 5208), (Start: 4 @5229 has 2 MA's), (5, 5259), (6, 5265), (7, 5271), (8, 5370), (9, 5379), (10, 5562), (11, 5568), (12, 5646), (13, 5661), (14,

5685), (15, 5736), (16, 5745), (17, 5796), (19, 5925), (20, 5928), (21, 5931), (22, 5943), (23, 5964), (24, 5973), (25, 5979), (26, 6096), (27, 6120), (28, 6153), (29, 6195), (30, 6261), (31, 6306), (32, 6345), (33, 6372), (34, 6477), (35, 6546), (36, 6606), (37, 6681), (38, 6690),

Gene: Command613_12 Start: 5257, Stop: 6813, Start Num: 2

Candidate Starts for Command613_12:

(Start: 1 @5254 has 20 MA's), (Start: 2 @5257 has 101 MA's), (3, 5296), (Start: 4 @5317 has 2 MA's), (5, 5347), (6, 5353), (7, 5359), (8, 5458), (9, 5467), (10, 5650), (11, 5656), (12, 5734), (13, 5749), (15, 5824), (17, 5884), (18, 5914), (19, 6013), (20, 6016), (21, 6019), (22, 6031), (23, 6052), (24, 6061), (25, 6067), (26, 6184), (27, 6208), (28, 6241), (29, 6283), (30, 6349), (31, 6394), (32, 6433), (33, 6460), (34, 6565), (35, 6634), (36, 6694), (37, 6769), (38, 6778),

Gene: Contagion_10 Start: 4784, Stop: 6343, Start Num: 1

Candidate Starts for Contagion_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Cookies_11 Start: 5059, Stop: 6615, Start Num: 2

Candidate Starts for Cookies_11:

(Start: 1 @5056 has 20 MA's), (Start: 2 @5059 has 101 MA's), (3, 5098), (Start: 4 @5119 has 2 MA's), (5, 5149), (6, 5155), (7, 5161), (8, 5260), (9, 5269), (10, 5452), (11, 5458), (12, 5536), (13, 5551), (15, 5626), (17, 5686), (18, 5716), (19, 5815), (20, 5818), (21, 5821), (22, 5833), (23, 5854), (24, 5863), (25, 5869), (26, 5986), (27, 6010), (28, 6043), (29, 6085), (30, 6151), (31, 6196), (32, 6235), (33, 6262), (34, 6367), (35, 6436), (36, 6496), (37, 6571), (38, 6580),

Gene: CrystalP_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for CrystalP_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Czyszczone1_11 Start: 4355, Stop: 5911, Start Num: 2

Candidate Starts for Czyszczone1_11:

(Start: 1 @4352 has 20 MA's), (Start: 2 @4355 has 101 MA's), (3, 4394), (Start: 4 @4415 has 2 MA's), (5, 4445), (6, 4451), (7, 4457), (8, 4556), (9, 4565), (10, 4748), (11, 4754), (12, 4832), (13, 4847), (15, 4922), (17, 4982), (18, 5012), (19, 5111), (20, 5114), (21, 5117), (22, 5129), (23, 5150), (24, 5159), (25, 5165), (26, 5282), (27, 5306), (28, 5339), (29, 5381), (30, 5447), (31, 5492), (32, 5531), (33, 5558), (34, 5663), (35, 5732), (36, 5792), (37, 5867), (38, 5876),

Gene: Daikon_9 Start: 4917, Stop: 6476, Start Num: 1

Candidate Starts for Daikon_9:

(Start: 1 @4917 has 20 MA's), (Start: 2 @4920 has 101 MA's), (3, 4959), (Start: 4 @4980 has 2 MA's), (5, 5010), (6, 5016), (7, 5022), (8, 5121), (9, 5130), (10, 5313), (11, 5319), (12, 5397), (13, 5412), (15, 5487), (17, 5547), (18, 5577), (19, 5676), (20, 5679), (21, 5682), (22, 5694), (23, 5715), (24, 5724), (25, 5730), (26, 5847), (27, 5871), (28, 5904), (29, 5946), (30, 6012), (31, 6057), (32, 6096), (33, 6123), (34, 6228), (35, 6297), (36, 6357), (37, 6432), (38, 6441),

Gene: DoctorDiddles_11 Start: 4352, Stop: 5908, Start Num: 2

Candidate Starts for DoctorDiddles_11:

(Start: 1 @4349 has 20 MA's), (Start: 2 @4352 has 101 MA's), (3, 4391), (Start: 4 @4412 has 2 MA's), (5, 4442), (6, 4448), (7, 4454), (8, 4553), (9, 4562), (10, 4745), (11, 4751), (12, 4829), (13, 4844), (14, 4868), (15, 4919), (16, 4928), (17, 4979), (19, 5108), (20, 5111), (21, 5114), (22, 5126), (24, 5156), (25, 5162), (26, 5279), (27, 5303), (28, 5336), (29, 5378), (30, 5444), (31, 5489), (32, 5528), (33, 5555), (34, 5660), (35, 5729), (36, 5789), (37, 5864), (38, 5873),

Gene: DrDrey_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for DrDrey_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Dumbo_10 Start: 4167, Stop: 5723, Start Num: 2

Candidate Starts for Dumbo_10:

(Start: 1 @4164 has 20 MA's), (Start: 2 @4167 has 101 MA's), (3, 4206), (Start: 4 @4227 has 2 MA's), (5, 4257), (6, 4263), (7, 4269), (8, 4368), (9, 4377), (10, 4560), (11, 4566), (12, 4644), (13, 4659), (15, 4734), (17, 4794), (18, 4824), (19, 4923), (20, 4926), (21, 4929), (22, 4941), (23, 4962), (24, 4971), (25, 4977), (26, 5094), (27, 5118), (28, 5151), (29, 5193), (30, 5259), (31, 5304), (32, 5343), (33, 5370), (34, 5475), (35, 5544), (36, 5604), (37, 5679), (38, 5688),

Gene: Dusk_10 Start: 4843, Stop: 6402, Start Num: 1

Candidate Starts for Dusk_10:

(Start: 1 @4843 has 20 MA's), (Start: 2 @4846 has 101 MA's), (3, 4885), (Start: 4 @4906 has 2 MA's), (5, 4936), (6, 4942), (7, 4948), (8, 5047), (9, 5056), (10, 5239), (11, 5245), (12, 5323), (13, 5338), (15, 5413), (17, 5473), (18, 5503), (19, 5602), (20, 5605), (21, 5608), (22, 5620), (23, 5641), (24, 5650), (25, 5656), (26, 5773), (27, 5797), (28, 5830), (29, 5872), (30, 5938), (31, 5983), (32, 6022), (33, 6049), (34, 6154), (35, 6223), (36, 6283), (37, 6358), (38, 6367),

Gene: Easy2Say_11 Start: 5142, Stop: 6698, Start Num: 2

Candidate Starts for Easy2Say_11:

(Start: 1 @5139 has 20 MA's), (Start: 2 @5142 has 101 MA's), (3, 5181), (Start: 4 @5202 has 2 MA's), (5, 5232), (6, 5238), (7, 5244), (8, 5343), (9, 5352), (10, 5535), (11, 5541), (12, 5619), (13, 5634), (15, 5709), (17, 5769), (19, 5898), (20, 5901), (21, 5904), (22, 5916), (23, 5937), (24, 5946), (25, 5952), (26, 6069), (27, 6093), (28, 6126), (29, 6168), (30, 6234), (31, 6279), (32, 6318), (33, 6345), (34, 6450), (35, 6519), (36, 6579), (37, 6654), (38, 6663),

Gene: Elite2014_9 Start: 3619, Stop: 5175, Start Num: 2

Candidate Starts for Elite2014_9:

(Start: 1 @3616 has 20 MA's), (Start: 2 @3619 has 101 MA's), (3, 3658), (Start: 4 @3679 has 2 MA's), (5, 3709), (6, 3715), (7, 3721), (8, 3820), (9, 3829), (10, 4012), (11, 4018), (12, 4096), (13, 4111), (15, 4186), (17, 4246), (19, 4375), (20, 4378), (21, 4381), (22, 4393), (23, 4414), (24, 4423), (25, 4429), (26, 4546), (27, 4570), (28, 4603), (29, 4645), (30, 4711), (31, 4756), (32, 4795), (33, 4822), (34, 4927), (35, 4996), (36, 5056), (37, 5131), (38, 5140),

Gene: Elph10_11 Start: 4170, Stop: 5726, Start Num: 2

Candidate Starts for Elph10_11:

(Start: 1 @4167 has 20 MA's), (Start: 2 @4170 has 101 MA's), (3, 4209), (Start: 4 @4230 has 2 MA's), (5, 4260), (6, 4266), (7, 4272), (8, 4371), (9, 4380), (10, 4563), (11, 4569), (12, 4647), (13, 4662), (14, 4686), (15, 4737), (16, 4746), (17, 4797), (19, 4926), (20, 4929), (21, 4932), (22, 4944), (23, 4965), (24, 4974), (25, 4980), (26, 5097), (27, 5121), (28, 5154), (29, 5196), (30, 5262), (31, 5307), (32,

5346), (33, 5373), (34, 5478), (35, 5547), (36, 5607), (37, 5682), (38, 5691),

Gene: Emmina_10 Start: 3721, Stop: 5280, Start Num: 1

Candidate Starts for Emmina_10:

(Start: 1 @3721 has 20 MA's), (Start: 2 @3724 has 101 MA's), (3, 3763), (Start: 4 @3784 has 2 MA's), (5, 3814), (6, 3820), (7, 3826), (8, 3925), (9, 3934), (10, 4117), (11, 4123), (12, 4201), (13, 4216), (15, 4291), (17, 4351), (18, 4381), (19, 4480), (20, 4483), (21, 4486), (22, 4498), (23, 4519), (24, 4528), (25, 4534), (26, 4651), (27, 4675), (28, 4708), (29, 4750), (30, 4816), (31, 4861), (32, 4900), (33, 4927), (34, 5032), (35, 5101), (36, 5161), (37, 5236), (38, 5245),

Gene: Eureka_10 Start: 4890, Stop: 6446, Start Num: 2

Candidate Starts for Eureka_10:

(Start: 1 @4887 has 20 MA's), (Start: 2 @4890 has 101 MA's), (3, 4929), (Start: 4 @4950 has 2 MA's), (5, 4980), (6, 4986), (7, 4992), (8, 5091), (9, 5100), (10, 5283), (11, 5289), (12, 5367), (13, 5382), (14, 5406), (15, 5457), (16, 5466), (17, 5517), (19, 5646), (20, 5649), (21, 5652), (22, 5664), (23, 5685), (24, 5694), (25, 5700), (26, 5817), (27, 5841), (28, 5874), (29, 5916), (30, 5982), (31, 6027), (32, 6066), (33, 6093), (34, 6198), (35, 6267), (36, 6327), (37, 6402), (38, 6411),

Gene: Filch_11 Start: 4164, Stop: 5720, Start Num: 2

Candidate Starts for Filch_11:

(Start: 1 @4161 has 20 MA's), (Start: 2 @4164 has 101 MA's), (3, 4203), (Start: 4 @4224 has 2 MA's), (5, 4254), (6, 4260), (7, 4266), (8, 4365), (9, 4374), (10, 4557), (11, 4563), (12, 4641), (13, 4656), (14, 4680), (15, 4731), (16, 4740), (17, 4791), (19, 4920), (20, 4923), (21, 4926), (22, 4938), (23, 4959), (24, 4968), (25, 4974), (26, 5091), (27, 5115), (28, 5148), (29, 5190), (30, 5256), (31, 5301), (32, 5340), (33, 5367), (34, 5472), (35, 5541), (36, 5601), (37, 5676), (38, 5685),

Gene: FireRed_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for FireRed_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (14, 5303), (15, 5354), (16, 5363), (17, 5414), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Flypotenuse_9 Start: 4799, Stop: 6358, Start Num: 1

Candidate Starts for Flypotenuse_9:

(Start: 1 @4799 has 20 MA's), (Start: 2 @4802 has 101 MA's), (3, 4841), (Start: 4 @4862 has 2 MA's), (5, 4892), (6, 4898), (7, 4904), (8, 5003), (9, 5012), (10, 5195), (11, 5201), (12, 5279), (13, 5294), (15, 5369), (17, 5429), (18, 5459), (19, 5558), (20, 5561), (21, 5564), (22, 5576), (23, 5597), (24, 5606), (25, 5612), (26, 5729), (27, 5753), (28, 5786), (29, 5828), (30, 5894), (31, 5939), (32, 5978), (33, 6005), (34, 6110), (35, 6179), (36, 6239), (37, 6314), (38, 6323),

Gene: Gage_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Gage_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Gator_9 Start: 4802, Stop: 6358, Start Num: 2

Candidate Starts for Gator_9:

(Start: 1 @4799 has 20 MA's), (Start: 2 @4802 has 101 MA's), (3, 4841), (Start: 4 @4862 has 2 MA's), (5, 4892), (6, 4898), (7, 4904), (8, 5003), (9, 5012), (10, 5195), (11, 5201), (12, 5279), (13, 5294), (15, 5369), (17, 5429), (18, 5459), (19, 5558), (20, 5561), (21, 5564), (22, 5576), (23, 5597), (24, 5606), (25, 5612), (26, 5729), (27, 5753), (28, 5786), (29, 5828), (30, 5894), (31, 5939), (32, 5978), (33, 6005), (34, 6110), (35, 6179), (36, 6239), (37, 6314), (38, 6323),

Gene: Gemini_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Gemini_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Glexan_9 Start: 4802, Stop: 6358, Start Num: 2

Candidate Starts for Glexan_9:

(Start: 1 @4799 has 20 MA's), (Start: 2 @4802 has 101 MA's), (3, 4841), (Start: 4 @4862 has 2 MA's), (5, 4892), (6, 4898), (7, 4904), (8, 5003), (9, 5012), (10, 5195), (11, 5201), (12, 5279), (13, 5294), (15, 5369), (17, 5429), (18, 5459), (19, 5558), (20, 5561), (21, 5564), (22, 5576), (23, 5597), (24, 5606), (25, 5612), (26, 5729), (27, 5753), (28, 5786), (29, 5828), (30, 5894), (31, 5939), (32, 5978), (33, 6005), (34, 6110), (35, 6179), (36, 6239), (37, 6314), (38, 6323),

Gene: Goku_11 Start: 4890, Stop: 6446, Start Num: 2

Candidate Starts for Goku_11:

(Start: 1 @4887 has 20 MA's), (Start: 2 @4890 has 101 MA's), (3, 4929), (Start: 4 @4950 has 2 MA's), (5, 4980), (6, 4986), (7, 4992), (8, 5091), (9, 5100), (10, 5283), (11, 5289), (12, 5367), (13, 5382), (14, 5406), (15, 5457), (16, 5466), (17, 5517), (19, 5646), (20, 5649), (21, 5652), (22, 5664), (23, 5685), (24, 5694), (25, 5700), (26, 5817), (27, 5841), (28, 5874), (29, 5916), (30, 5982), (31, 6027), (32, 6066), (33, 6093), (34, 6198), (35, 6267), (36, 6327), (37, 6402), (38, 6411),

Gene: GoldenSpark_12 Start: 4396, Stop: 5955, Start Num: 1

Candidate Starts for GoldenSpark_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (15, 4966), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Goldilocks_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Goldilocks_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: GooberAzure_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for GooberAzure_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: HanKaySha_11 Start: 4355, Stop: 5911, Start Num: 2

Candidate Starts for HanKaySha_11:

(Start: 1 @4352 has 20 MA's), (Start: 2 @4355 has 101 MA's), (3, 4394), (Start: 4 @4415 has 2 MA's), (5, 4445), (6, 4451), (7, 4457), (8, 4556), (9, 4565), (10, 4748), (11, 4754), (12, 4832), (13, 4847), (15, 4922), (17, 4982), (18, 5012), (19, 5111), (20, 5114), (21, 5117), (22, 5129), (23, 5150), (24, 5159), (25, 5165), (26, 5282), (27, 5306), (28, 5339), (29, 5381), (30, 5447), (31, 5492), (32, 5531), (33, 5558), (34, 5663), (35, 5732), (36, 5792), (37, 5867), (38, 5876),

Gene: Harella_9 Start: 4799, Stop: 6358, Start Num: 1

Candidate Starts for Harella_9:

(Start: 1 @4799 has 20 MA's), (Start: 2 @4802 has 101 MA's), (3, 4841), (Start: 4 @4862 has 2 MA's), (5, 4892), (6, 4898), (7, 4904), (8, 5003), (9, 5012), (10, 5195), (11, 5201), (12, 5279), (13, 5294), (15, 5369), (17, 5429), (18, 5459), (19, 5558), (20, 5561), (21, 5564), (22, 5576), (23, 5597), (24, 5606), (25, 5612), (26, 5729), (27, 5753), (28, 5786), (29, 5828), (30, 5894), (31, 5939), (32, 5978), (33, 6005), (34, 6110), (35, 6179), (36, 6239), (37, 6314), (38, 6323),

Gene: Henry_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for Henry_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Highbury_11 Start: 4364, Stop: 5920, Start Num: 2

Candidate Starts for Highbury_11:

(Start: 1 @4361 has 20 MA's), (Start: 2 @4364 has 101 MA's), (3, 4403), (Start: 4 @4424 has 2 MA's), (5, 4454), (6, 4460), (7, 4466), (8, 4565), (9, 4574), (10, 4757), (11, 4763), (12, 4841), (13, 4856), (15, 4931), (17, 4991), (18, 5021), (19, 5120), (20, 5123), (21, 5126), (22, 5138), (23, 5159), (24, 5168), (25, 5174), (26, 5291), (27, 5315), (28, 5348), (29, 5390), (30, 5456), (31, 5501), (32, 5540), (33, 5567), (34, 5672), (35, 5741), (36, 5801), (37, 5876), (38, 5885),

Gene: Holt_12 Start: 4470, Stop: 6026, Start Num: 2

Candidate Starts for Holt_12:

(Start: 1 @4467 has 20 MA's), (Start: 2 @4470 has 101 MA's), (3, 4509), (Start: 4 @4530 has 2 MA's), (5, 4560), (6, 4566), (7, 4572), (8, 4671), (9, 4680), (10, 4863), (11, 4869), (12, 4947), (13, 4962), (14, 4986), (15, 5037), (16, 5046), (17, 5097), (19, 5226), (20, 5229), (21, 5232), (22, 5244), (24, 5274), (25, 5280), (26, 5397), (27, 5421), (28, 5454), (29, 5496), (30, 5562), (31, 5607), (32, 5646), (33, 5673), (34, 5778), (35, 5847), (36, 5907), (37, 5982), (38, 5991),

Gene: Hoonter_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Hoonter_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (15, 4966), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Hokey_11 Start: 4164, Stop: 5720, Start Num: 2

Candidate Starts for Hokey_11:

(Start: 1 @4161 has 20 MA's), (Start: 2 @4164 has 101 MA's), (3, 4203), (Start: 4 @4224 has 2 MA's), (5, 4254), (6, 4260), (7, 4266), (8, 4365), (9, 4374), (10, 4557), (11, 4563), (12, 4641), (13, 4656), (15,

4731), (17, 4791), (18, 4821), (19, 4920), (20, 4923), (21, 4926), (22, 4938), (23, 4959), (24, 4968), (25, 4974), (26, 5091), (27, 5115), (28, 5148), (29, 5190), (30, 5256), (31, 5301), (32, 5340), (33, 5367), (34, 5472), (35, 5541), (36, 5601), (37, 5676), (38, 5685),

Gene: HufflyPuff_9 Start: 4740, Stop: 6299, Start Num: 1

Candidate Starts for HufflyPuff_9:

(Start: 1 @4740 has 20 MA's), (Start: 2 @4743 has 101 MA's), (3, 4782), (Start: 4 @4803 has 2 MA's), (5, 4833), (6, 4839), (7, 4845), (8, 4944), (9, 4953), (10, 5136), (11, 5142), (12, 5220), (13, 5235), (15, 5310), (17, 5370), (18, 5400), (19, 5499), (20, 5502), (21, 5505), (22, 5517), (23, 5538), (24, 5547), (25, 5553), (26, 5670), (27, 5694), (28, 5727), (29, 5769), (30, 5835), (31, 5880), (32, 5919), (33, 5946), (34, 6051), (35, 6120), (36, 6180), (37, 6255), (38, 6264),

Gene: IHOP_10 Start: 4846, Stop: 6402, Start Num: 2

Candidate Starts for IHOP_10:

(Start: 1 @4843 has 20 MA's), (Start: 2 @4846 has 101 MA's), (3, 4885), (Start: 4 @4906 has 2 MA's), (5, 4936), (6, 4942), (7, 4948), (8, 5047), (9, 5056), (10, 5239), (11, 5245), (12, 5323), (13, 5338), (15, 5413), (17, 5473), (18, 5503), (19, 5602), (20, 5605), (21, 5608), (22, 5620), (23, 5641), (24, 5650), (25, 5656), (26, 5773), (27, 5797), (28, 5830), (29, 5872), (30, 5938), (31, 5983), (32, 6022), (33, 6049), (34, 6154), (35, 6223), (36, 6283), (37, 6358), (38, 6367),

Gene: Icee_10 Start: 4846, Stop: 6402, Start Num: 2

Candidate Starts for Icee_10:

(Start: 1 @4843 has 20 MA's), (Start: 2 @4846 has 101 MA's), (3, 4885), (Start: 4 @4906 has 2 MA's), (5, 4936), (6, 4942), (7, 4948), (8, 5047), (9, 5056), (10, 5239), (11, 5245), (12, 5323), (13, 5338), (14, 5362), (15, 5413), (16, 5422), (17, 5473), (18, 5503), (19, 5602), (20, 5605), (21, 5608), (22, 5620), (23, 5641), (24, 5650), (25, 5656), (26, 5773), (27, 5797), (28, 5830), (29, 5872), (30, 5938), (31, 5983), (32, 6022), (33, 6049), (34, 6154), (35, 6223), (36, 6283), (37, 6358), (38, 6367),

Gene: Inca_10 Start: 3866, Stop: 5422, Start Num: 2

Candidate Starts for Inca_10:

(Start: 1 @3863 has 20 MA's), (Start: 2 @3866 has 101 MA's), (3, 3905), (Start: 4 @3926 has 2 MA's), (5, 3956), (6, 3962), (7, 3968), (8, 4067), (9, 4076), (10, 4259), (11, 4265), (12, 4343), (13, 4358), (15, 4433), (17, 4493), (18, 4523), (19, 4622), (20, 4625), (21, 4628), (22, 4640), (23, 4661), (24, 4670), (25, 4676), (26, 4793), (27, 4817), (28, 4850), (29, 4892), (30, 4958), (31, 5003), (32, 5042), (33, 5069), (34, 5174), (35, 5243), (36, 5303), (37, 5378), (38, 5387),

Gene: JeTaime_12 Start: 5204, Stop: 6760, Start Num: 2

Candidate Starts for JeTaime_12:

(Start: 1 @5201 has 20 MA's), (Start: 2 @5204 has 101 MA's), (3, 5243), (Start: 4 @5264 has 2 MA's), (5, 5294), (6, 5300), (7, 5306), (8, 5405), (9, 5414), (10, 5597), (11, 5603), (12, 5681), (13, 5696), (14, 5720), (15, 5771), (16, 5780), (17, 5831), (19, 5960), (20, 5963), (21, 5966), (22, 5978), (23, 5999), (24, 6008), (25, 6014), (26, 6131), (27, 6155), (28, 6188), (29, 6230), (30, 6296), (31, 6341), (32, 6380), (33, 6407), (34, 6512), (35, 6581), (36, 6641), (37, 6716), (38, 6725),

Gene: Kanye_12 Start: 5392, Stop: 6948, Start Num: 2

Candidate Starts for Kanye_12:

(Start: 1 @5389 has 20 MA's), (Start: 2 @5392 has 101 MA's), (3, 5431), (Start: 4 @5452 has 2 MA's), (5, 5482), (6, 5488), (7, 5494), (8, 5593), (9, 5602), (10, 5785), (11, 5791), (12, 5869), (13, 5884), (15, 5959), (17, 6019), (18, 6049), (19, 6148), (20, 6151), (21, 6154), (22, 6166), (23, 6187), (24, 6196), (25, 6202), (26, 6319), (27, 6343), (28, 6376), (29, 6418), (30, 6484), (31, 6529), (32, 6568), (33, 6595), (34, 6700), (35, 6769), (36, 6829), (37, 6904), (38, 6913),

Gene: Kimchi_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Kimchi_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Kostya_11 Start: 5246, Stop: 6742, Start Num: 4

Candidate Starts for Kostya_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Lilac_12 Start: 4191, Stop: 5747, Start Num: 2

Candidate Starts for Lilac_12:

(Start: 1 @4188 has 20 MA's), (Start: 2 @4191 has 101 MA's), (3, 4230), (Start: 4 @4251 has 2 MA's), (5, 4281), (6, 4287), (7, 4293), (8, 4392), (9, 4401), (10, 4584), (11, 4590), (12, 4668), (13, 4683), (14, 4707), (15, 4758), (16, 4767), (17, 4818), (19, 4947), (20, 4950), (21, 4953), (22, 4965), (23, 4986), (24, 4995), (25, 5001), (26, 5118), (27, 5142), (28, 5175), (29, 5217), (30, 5283), (31, 5328), (32, 5367), (33, 5394), (34, 5499), (35, 5568), (36, 5628), (37, 5703), (38, 5712),

Gene: Lilizi_12 Start: 4402, Stop: 5958, Start Num: 2

Candidate Starts for Lilizi_12:

(Start: 1 @4399 has 20 MA's), (Start: 2 @4402 has 101 MA's), (3, 4441), (Start: 4 @4462 has 2 MA's), (5, 4492), (6, 4498), (7, 4504), (8, 4603), (9, 4612), (10, 4795), (11, 4801), (12, 4879), (13, 4894), (14, 4918), (15, 4969), (16, 4978), (17, 5029), (19, 5158), (20, 5161), (21, 5164), (22, 5176), (23, 5197), (24, 5206), (25, 5212), (26, 5329), (27, 5353), (28, 5386), (29, 5428), (30, 5494), (31, 5539), (32, 5578), (33, 5605), (34, 5710), (35, 5779), (36, 5839), (37, 5914), (38, 5923),

Gene: Lilpickle_9 Start: 3616, Stop: 5175, Start Num: 1

Candidate Starts for Lilpickle_9:

(Start: 1 @3616 has 20 MA's), (Start: 2 @3619 has 101 MA's), (3, 3658), (Start: 4 @3679 has 2 MA's), (5, 3709), (6, 3715), (7, 3721), (8, 3820), (9, 3829), (10, 4012), (11, 4018), (12, 4096), (13, 4111), (15, 4186), (17, 4246), (19, 4375), (20, 4378), (21, 4381), (22, 4393), (23, 4414), (24, 4423), (25, 4429), (26, 4546), (27, 4570), (28, 4603), (29, 4645), (30, 4711), (31, 4756), (32, 4795), (33, 4822), (34, 4927), (35, 4996), (36, 5056), (37, 5131), (38, 5140),

Gene: MISSy_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for MISSy_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (16, 5363), (17, 5414), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: MPhalcon_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for MPhalcon_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (14, 5303), (15, 5354), (16, 5363), (17, 5414), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32,

5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: MadamMonkfish_10 Start: 4031, Stop: 5587, Start Num: 2

Candidate Starts for MadamMonkfish_10:

(Start: 1 @4028 has 20 MA's), (Start: 2 @4031 has 101 MA's), (3, 4070), (Start: 4 @4091 has 2 MA's), (5, 4121), (6, 4127), (7, 4133), (8, 4232), (9, 4241), (10, 4424), (11, 4430), (12, 4508), (13, 4523), (15, 4598), (17, 4658), (18, 4688), (19, 4787), (20, 4790), (21, 4793), (22, 4805), (23, 4826), (24, 4835), (25, 4841), (26, 4958), (27, 4982), (28, 5015), (29, 5057), (30, 5123), (31, 5168), (32, 5207), (33, 5234), (34, 5339), (35, 5408), (36, 5468), (37, 5543), (38, 5552),

Gene: Manda_10 Start: 4679, Stop: 6238, Start Num: 1

Candidate Starts for Manda_10:

(Start: 1 @4679 has 20 MA's), (Start: 2 @4682 has 101 MA's), (3, 4721), (Start: 4 @4742 has 2 MA's), (5, 4772), (6, 4778), (7, 4784), (8, 4883), (9, 4892), (10, 5075), (11, 5081), (12, 5159), (13, 5174), (15, 5249), (17, 5309), (18, 5339), (19, 5438), (20, 5441), (21, 5444), (22, 5456), (23, 5477), (24, 5486), (25, 5492), (26, 5609), (27, 5633), (28, 5666), (29, 5708), (30, 5774), (31, 5819), (32, 5858), (33, 5885), (34, 5990), (35, 6059), (36, 6119), (37, 6194), (38, 6203),

Gene: Marshmallow_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for Marshmallow_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Maxxinista_11 Start: 4170, Stop: 5726, Start Num: 2

Candidate Starts for Maxxinista_11:

(Start: 1 @4167 has 20 MA's), (Start: 2 @4170 has 101 MA's), (3, 4209), (Start: 4 @4230 has 2 MA's), (5, 4260), (6, 4266), (7, 4272), (8, 4371), (9, 4380), (10, 4563), (11, 4569), (12, 4647), (13, 4662), (14, 4686), (15, 4737), (16, 4746), (17, 4797), (19, 4926), (20, 4929), (21, 4932), (22, 4944), (23, 4965), (24, 4974), (25, 4980), (26, 5097), (27, 5121), (28, 5154), (29, 5196), (30, 5262), (31, 5307), (32, 5346), (33, 5373), (34, 5478), (35, 5547), (36, 5607), (37, 5682), (38, 5691),

Gene: Mindy_11 Start: 5057, Stop: 6613, Start Num: 2

Candidate Starts for Mindy_11:

(Start: 1 @5054 has 20 MA's), (Start: 2 @5057 has 101 MA's), (3, 5096), (Start: 4 @5117 has 2 MA's), (5, 5147), (6, 5153), (7, 5159), (8, 5258), (9, 5267), (10, 5450), (11, 5456), (12, 5534), (13, 5549), (15, 5624), (17, 5684), (18, 5714), (19, 5813), (20, 5816), (21, 5819), (22, 5831), (23, 5852), (24, 5861), (25, 5867), (26, 5984), (27, 6008), (28, 6041), (29, 6083), (30, 6149), (31, 6194), (32, 6233), (33, 6260), (34, 6365), (35, 6434), (36, 6494), (37, 6569), (38, 6578),

Gene: Miniwave_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for Miniwave_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Misfit_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Misfit_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Moldemort_11 Start: 4355, Stop: 5911, Start Num: 2

Candidate Starts for Moldemort_11:

(Start: 1 @4352 has 20 MA's), (Start: 2 @4355 has 101 MA's), (3, 4394), (Start: 4 @4415 has 2 MA's), (5, 4445), (6, 4451), (7, 4457), (8, 4556), (9, 4565), (10, 4748), (11, 4754), (12, 4832), (13, 4847), (15, 4922), (17, 4982), (18, 5012), (19, 5111), (20, 5114), (21, 5117), (22, 5129), (23, 5150), (24, 5159), (25, 5165), (26, 5282), (27, 5306), (28, 5339), (29, 5381), (30, 5447), (31, 5492), (32, 5531), (33, 5558), (34, 5663), (35, 5732), (36, 5792), (37, 5867), (38, 5876),

Gene: Mosby_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Mosby_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Murica_9 Start: 4743, Stop: 6299, Start Num: 2

Candidate Starts for Murica_9:

(Start: 1 @4740 has 20 MA's), (Start: 2 @4743 has 101 MA's), (3, 4782), (Start: 4 @4803 has 2 MA's), (5, 4833), (6, 4839), (7, 4845), (8, 4944), (9, 4953), (10, 5136), (11, 5142), (12, 5220), (13, 5235), (15, 5310), (17, 5370), (18, 5400), (19, 5499), (20, 5502), (21, 5505), (22, 5517), (23, 5538), (24, 5547), (25, 5553), (26, 5670), (27, 5694), (28, 5727), (29, 5769), (30, 5835), (31, 5880), (32, 5919), (33, 5946), (34, 6051), (35, 6120), (36, 6180), (37, 6255), (38, 6264),

Gene: Murphy_10 Start: 4072, Stop: 5628, Start Num: 2

Candidate Starts for Murphy_10:

(Start: 1 @4069 has 20 MA's), (Start: 2 @4072 has 101 MA's), (3, 4111), (Start: 4 @4132 has 2 MA's), (5, 4162), (6, 4168), (7, 4174), (8, 4273), (9, 4282), (10, 4465), (11, 4471), (12, 4549), (13, 4564), (15, 4639), (17, 4699), (18, 4729), (19, 4828), (20, 4831), (21, 4834), (22, 4846), (23, 4867), (24, 4876), (25, 4882), (26, 4999), (27, 5023), (28, 5056), (29, 5098), (30, 5164), (31, 5209), (32, 5248), (33, 5275), (34, 5380), (35, 5449), (36, 5509), (37, 5584), (38, 5593),

Gene: Myrale_11 Start: 5057, Stop: 6613, Start Num: 2

Candidate Starts for Myrale_11:

(Start: 1 @5054 has 20 MA's), (Start: 2 @5057 has 101 MA's), (3, 5096), (Start: 4 @5117 has 2 MA's), (5, 5147), (6, 5153), (7, 5159), (8, 5258), (9, 5267), (10, 5450), (11, 5456), (12, 5534), (13, 5549), (15, 5624), (17, 5684), (18, 5714), (19, 5813), (20, 5816), (21, 5819), (22, 5831), (23, 5852), (24, 5861), (25, 5867), (26, 5984), (27, 6008), (28, 6041), (29, 6083), (30, 6149), (31, 6194), (32, 6233), (33, 6260), (34, 6365), (35, 6434), (36, 6494), (37, 6569), (38, 6578),

Gene: Nala_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Nala_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: NelitzaMV_11 Start: 5057, Stop: 6613, Start Num: 2

Candidate Starts for NelitzaMV_11:

(Start: 1 @5054 has 20 MA's), (Start: 2 @5057 has 101 MA's), (3, 5096), (Start: 4 @5117 has 2 MA's), (5, 5147), (6, 5153), (7, 5159), (8, 5258), (9, 5267), (10, 5450), (11, 5456), (12, 5534), (13, 5549), (15, 5624), (17, 5684), (18, 5714), (19, 5813), (20, 5816), (21, 5819), (22, 5831), (23, 5852), (24, 5861), (25, 5867), (26, 5984), (27, 6008), (28, 6041), (29, 6083), (30, 6149), (31, 6194), (32, 6233), (33, 6260), (34, 6365), (35, 6434), (36, 6494), (37, 6569), (38, 6578),

Gene: Nimrod_10 Start: 4852, Stop: 6408, Start Num: 2

Candidate Starts for Nimrod_10:

(Start: 1 @4849 has 20 MA's), (Start: 2 @4852 has 101 MA's), (3, 4891), (Start: 4 @4912 has 2 MA's), (5, 4942), (6, 4948), (7, 4954), (8, 5053), (9, 5062), (10, 5245), (11, 5251), (12, 5329), (13, 5344), (15, 5419), (17, 5479), (18, 5509), (19, 5608), (20, 5611), (21, 5614), (22, 5626), (23, 5647), (24, 5656), (25, 5662), (26, 5779), (27, 5803), (28, 5836), (29, 5878), (30, 5944), (31, 5989), (32, 6028), (33, 6055), (34, 6160), (35, 6229), (36, 6289), (37, 6364), (38, 6373),

Gene: NoSleep_11 Start: 4352, Stop: 5908, Start Num: 2

Candidate Starts for NoSleep_11:

(Start: 1 @4349 has 20 MA's), (Start: 2 @4352 has 101 MA's), (3, 4391), (Start: 4 @4412 has 2 MA's), (5, 4442), (6, 4448), (7, 4454), (8, 4553), (9, 4562), (10, 4745), (11, 4751), (12, 4829), (13, 4844), (15, 4919), (17, 4979), (18, 5009), (19, 5108), (20, 5111), (21, 5114), (22, 5126), (23, 5147), (24, 5156), (25, 5162), (26, 5279), (27, 5303), (28, 5336), (29, 5378), (30, 5444), (31, 5489), (32, 5528), (33, 5555), (34, 5660), (35, 5729), (36, 5789), (37, 5864), (38, 5873),

Gene: OrionPax_11 Start: 4355, Stop: 5911, Start Num: 2

Candidate Starts for OrionPax_11:

(Start: 1 @4352 has 20 MA's), (Start: 2 @4355 has 101 MA's), (3, 4394), (Start: 4 @4415 has 2 MA's), (5, 4445), (6, 4451), (7, 4457), (8, 4556), (9, 4565), (10, 4748), (11, 4754), (12, 4832), (13, 4847), (15, 4922), (17, 4982), (18, 5012), (19, 5111), (20, 5114), (21, 5117), (22, 5129), (23, 5150), (24, 5159), (25, 5165), (26, 5282), (27, 5306), (28, 5339), (29, 5381), (30, 5447), (31, 5492), (32, 5531), (33, 5558), (34, 5663), (35, 5732), (36, 5792), (37, 5867), (38, 5876),

Gene: Palpatine_10 Start: 4784, Stop: 6340, Start Num: 2

Candidate Starts for Palpatine_10:

(Start: 1 @4781 has 20 MA's), (Start: 2 @4784 has 101 MA's), (3, 4823), (Start: 4 @4844 has 2 MA's), (5, 4874), (6, 4880), (7, 4886), (8, 4985), (9, 4994), (10, 5177), (11, 5183), (12, 5261), (13, 5276), (15, 5351), (17, 5411), (18, 5441), (19, 5540), (20, 5543), (21, 5546), (22, 5558), (23, 5579), (24, 5588), (25, 5594), (26, 5711), (27, 5735), (28, 5768), (29, 5810), (30, 5876), (31, 5921), (32, 5960), (33, 5987), (34, 6092), (35, 6161), (36, 6221), (37, 6296), (38, 6305),

Gene: Paperbeatsrock_12 Start: 5383, Stop: 6942, Start Num: 1

Candidate Starts for Paperbeatsrock_12:

(Start: 1 @5383 has 20 MA's), (Start: 2 @5386 has 101 MA's), (3, 5425), (Start: 4 @5446 has 2 MA's), (5, 5476), (6, 5482), (7, 5488), (8, 5587), (9, 5596), (10, 5779), (11, 5785), (12, 5863), (13, 5878), (15, 5953), (17, 6013), (18, 6043), (19, 6142), (20, 6145), (21, 6148), (22, 6160), (23, 6181), (24, 6190), (25, 6196), (26, 6313), (27, 6337), (28, 6370), (29, 6412), (30, 6478), (31, 6523), (32, 6562), (33, 6589), (34, 6694), (35, 6763), (36, 6823), (37, 6898), (38, 6907),

Gene: Pat3_10 Start: 3893, Stop: 5449, Start Num: 2

Candidate Starts for Pat3_10:

(Start: 1 @3890 has 20 MA's), (Start: 2 @3893 has 101 MA's), (3, 3932), (Start: 4 @3953 has 2 MA's), (5, 3983), (6, 3989), (7, 3995), (8, 4094), (9, 4103), (10, 4286), (11, 4292), (12, 4370), (13, 4385), (15,

4460), (17, 4520), (18, 4550), (19, 4649), (20, 4652), (21, 4655), (22, 4667), (23, 4688), (24, 4697), (25, 4703), (26, 4820), (27, 4844), (28, 4877), (29, 4919), (30, 4985), (31, 5030), (32, 5069), (33, 5096), (34, 5201), (35, 5270), (36, 5330), (37, 5405), (38, 5414),

Gene: Petra64142_11 Start: 5065, Stop: 6624, Start Num: 1

Candidate Starts for Petra64142_11:

(Start: 1 @5065 has 20 MA's), (Start: 2 @5068 has 101 MA's), (3, 5107), (Start: 4 @5128 has 2 MA's), (5, 5158), (6, 5164), (7, 5170), (8, 5269), (9, 5278), (10, 5461), (11, 5467), (12, 5545), (13, 5560), (15, 5635), (17, 5695), (19, 5824), (20, 5827), (21, 5830), (22, 5842), (23, 5863), (24, 5872), (25, 5878), (26, 5995), (27, 6019), (28, 6052), (29, 6094), (30, 6160), (31, 6205), (32, 6244), (33, 6271), (34, 6376), (35, 6445), (36, 6505), (37, 6580), (38, 6589),

Gene: Phaja_10 Start: 4846, Stop: 6402, Start Num: 2

Candidate Starts for Phaja_10:

(Start: 1 @4843 has 20 MA's), (Start: 2 @4846 has 101 MA's), (3, 4885), (Start: 4 @4906 has 2 MA's), (5, 4936), (6, 4942), (7, 4948), (8, 5047), (9, 5056), (10, 5239), (11, 5245), (12, 5323), (13, 5338), (15, 5413), (17, 5473), (18, 5503), (19, 5602), (20, 5605), (21, 5608), (22, 5620), (23, 5641), (24, 5650), (25, 5656), (26, 5773), (27, 5797), (28, 5830), (29, 5872), (30, 5938), (31, 5983), (32, 6022), (33, 6049), (34, 6154), (35, 6223), (36, 6283), (37, 6358), (38, 6367),

Gene: Pharsalus_11 Start: 5183, Stop: 6742, Start Num: 1

Candidate Starts for Pharsalus_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: PhatBacter_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for PhatBacter_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (14, 5303), (15, 5354), (16, 5363), (17, 5414), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Phaux_9 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Phaux_9:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Phrux_10 Start: 4150, Stop: 5706, Start Num: 2

Candidate Starts for Phrux_10:

(Start: 1 @4147 has 20 MA's), (Start: 2 @4150 has 101 MA's), (3, 4189), (Start: 4 @4210 has 2 MA's), (5, 4240), (6, 4246), (7, 4252), (8, 4351), (9, 4360), (10, 4543), (11, 4549), (12, 4627), (13, 4642), (14, 4666), (15, 4717), (16, 4726), (17, 4777), (19, 4906), (20, 4909), (21, 4912), (22, 4924), (23, 4945), (24, 4954), (25, 4960), (26, 5077), (27, 5101), (28, 5134), (29, 5176), (30, 5242), (31, 5287), (32, 5326), (33, 5353), (34, 5458), (35, 5527), (36, 5587), (37, 5662), (38, 5671),

Gene: Policronamos_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Policronamos_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Porky_9 Start: 3721, Stop: 5280, Start Num: 1

Candidate Starts for Porky_9:

(Start: 1 @3721 has 20 MA's), (Start: 2 @3724 has 101 MA's), (3, 3763), (Start: 4 @3784 has 2 MA's), (5, 3814), (6, 3820), (7, 3826), (8, 3925), (9, 3934), (10, 4117), (11, 4123), (12, 4201), (13, 4216), (15, 4291), (17, 4351), (18, 4381), (19, 4480), (20, 4483), (21, 4486), (22, 4498), (23, 4519), (24, 4528), (25, 4534), (26, 4651), (27, 4675), (28, 4708), (29, 4750), (30, 4816), (31, 4861), (32, 4900), (33, 4927), (34, 5032), (35, 5101), (36, 5161), (37, 5236), (38, 5245),

Gene: Pumpkin_11 Start: 4228, Stop: 5724, Start Num: 4

Candidate Starts for Pumpkin_11:

(Start: 1 @4165 has 20 MA's), (Start: 2 @4168 has 101 MA's), (3, 4207), (Start: 4 @4228 has 2 MA's), (5, 4258), (6, 4264), (7, 4270), (8, 4369), (9, 4378), (10, 4561), (11, 4567), (12, 4645), (13, 4660), (14, 4684), (15, 4735), (16, 4744), (17, 4795), (19, 4924), (20, 4927), (21, 4930), (22, 4942), (23, 4963), (24, 4972), (25, 4978), (26, 5095), (27, 5119), (28, 5152), (29, 5194), (30, 5260), (31, 5305), (32, 5344), (33, 5371), (34, 5476), (35, 5545), (36, 5605), (37, 5680), (38, 5689),

Gene: Quallification_12 Start: 5392, Stop: 6948, Start Num: 2

Candidate Starts for Quallification_12:

(Start: 1 @5389 has 20 MA's), (Start: 2 @5392 has 101 MA's), (3, 5431), (Start: 4 @5452 has 2 MA's), (5, 5482), (6, 5488), (7, 5494), (8, 5593), (9, 5602), (10, 5785), (11, 5791), (12, 5869), (13, 5884), (15, 5959), (17, 6019), (18, 6049), (19, 6148), (20, 6151), (21, 6154), (22, 6166), (23, 6187), (24, 6196), (25, 6202), (26, 6319), (27, 6343), (28, 6376), (29, 6418), (30, 6484), (31, 6529), (32, 6568), (33, 6595), (34, 6700), (35, 6769), (36, 6829), (37, 6904), (38, 6913),

Gene: Rakim_12 Start: 5392, Stop: 6948, Start Num: 2

Candidate Starts for Rakim_12:

(Start: 1 @5389 has 20 MA's), (Start: 2 @5392 has 101 MA's), (3, 5431), (Start: 4 @5452 has 2 MA's), (5, 5482), (6, 5488), (7, 5494), (8, 5593), (9, 5602), (10, 5785), (11, 5791), (12, 5869), (13, 5884), (15, 5959), (17, 6019), (18, 6049), (19, 6148), (20, 6151), (21, 6154), (22, 6166), (23, 6187), (24, 6196), (25, 6202), (26, 6319), (27, 6343), (28, 6376), (29, 6418), (30, 6484), (31, 6529), (32, 6568), (33, 6595), (34, 6700), (35, 6769), (36, 6829), (37, 6904), (38, 6913),

Gene: Rimmer_10 Start: 4846, Stop: 6402, Start Num: 2

Candidate Starts for Rimmer_10:

(Start: 1 @4843 has 20 MA's), (Start: 2 @4846 has 101 MA's), (3, 4885), (Start: 4 @4906 has 2 MA's), (5, 4936), (6, 4942), (7, 4948), (8, 5047), (9, 5056), (10, 5239), (11, 5245), (12, 5323), (13, 5338), (15, 5413), (17, 5473), (18, 5503), (19, 5602), (20, 5605), (21, 5608), (22, 5620), (23, 5641), (24, 5650), (25, 5656), (26, 5773), (27, 5797), (28, 5830), (29, 5872), (30, 5938), (31, 5983), (32, 6022), (33, 6049), (34, 6154), (35, 6223), (36, 6283), (37, 6358), (38, 6367),

Gene: RiverMonster_10 Start: 4164, Stop: 5720, Start Num: 2

Candidate Starts for RiverMonster_10:

(Start: 1 @4161 has 20 MA's), (Start: 2 @4164 has 101 MA's), (3, 4203), (Start: 4 @4224 has 2 MA's), (5, 4254), (6, 4260), (7, 4266), (8, 4365), (9, 4374), (10, 4557), (11, 4563), (12, 4641), (13, 4656), (15, 4731), (17, 4791), (18, 4821), (19, 4920), (20, 4923), (21, 4926), (22, 4938), (23, 4959), (24, 4968), (25, 4974), (26, 5091), (27, 5115), (28, 5148), (29, 5190), (30, 5256), (31, 5301), (32, 5340), (33,

5367), (34, 5472), (35, 5541), (36, 5601), (37, 5676), (38, 5685),

Gene: Saints25_11 Start: 4364, Stop: 5920, Start Num: 2

Candidate Starts for Saints25_11:

(Start: 1 @4361 has 20 MA's), (Start: 2 @4364 has 101 MA's), (3, 4403), (Start: 4 @4424 has 2 MA's), (5, 4454), (6, 4460), (7, 4466), (8, 4565), (9, 4574), (10, 4757), (11, 4763), (12, 4841), (13, 4856), (15, 4931), (17, 4991), (18, 5021), (19, 5120), (20, 5123), (21, 5126), (22, 5138), (23, 5159), (24, 5168), (25, 5174), (26, 5291), (27, 5315), (28, 5348), (29, 5390), (30, 5456), (31, 5501), (32, 5540), (33, 5567), (34, 5672), (35, 5741), (36, 5801), (37, 5876), (38, 5885),

Gene: Sassay_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Sassay_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: ShamWow_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for ShamWow_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: ShereKhan_12 Start: 5392, Stop: 6948, Start Num: 2

Candidate Starts for ShereKhan_12:

(Start: 1 @5389 has 20 MA's), (Start: 2 @5392 has 101 MA's), (3, 5431), (Start: 4 @5452 has 2 MA's), (5, 5482), (6, 5488), (7, 5494), (8, 5593), (9, 5602), (10, 5785), (11, 5791), (12, 5869), (13, 5884), (15, 5959), (17, 6019), (19, 6148), (20, 6151), (21, 6154), (22, 6166), (23, 6187), (24, 6196), (25, 6202), (26, 6319), (27, 6343), (28, 6376), (29, 6418), (30, 6484), (31, 6529), (32, 6568), (33, 6595), (34, 6700), (35, 6769), (36, 6829), (37, 6904), (38, 6913),

Gene: Simpliphy_11 Start: 4355, Stop: 5911, Start Num: 2

Candidate Starts for Simpliphy_11:

(Start: 1 @4352 has 20 MA's), (Start: 2 @4355 has 101 MA's), (3, 4394), (Start: 4 @4415 has 2 MA's), (5, 4445), (6, 4451), (7, 4457), (8, 4556), (9, 4565), (10, 4748), (11, 4754), (12, 4832), (13, 4847), (15, 4922), (17, 4982), (18, 5012), (19, 5111), (20, 5114), (21, 5117), (22, 5129), (23, 5150), (24, 5159), (25, 5165), (26, 5282), (27, 5306), (28, 5339), (29, 5381), (30, 5447), (31, 5492), (32, 5531), (33, 5558), (34, 5663), (35, 5732), (36, 5792), (37, 5867), (38, 5876),

Gene: SirDuracell_10 Start: 3853, Stop: 5409, Start Num: 2

Candidate Starts for SirDuracell_10:

(Start: 1 @3850 has 20 MA's), (Start: 2 @3853 has 101 MA's), (3, 3892), (Start: 4 @3913 has 2 MA's), (5, 3943), (6, 3949), (7, 3955), (8, 4054), (9, 4063), (10, 4246), (11, 4252), (12, 4330), (13, 4345), (15, 4420), (17, 4480), (18, 4510), (19, 4609), (20, 4612), (21, 4615), (22, 4627), (23, 4648), (24, 4657), (25, 4663), (26, 4780), (27, 4804), (28, 4837), (29, 4879), (30, 4945), (31, 4990), (32, 5029), (33, 5056), (34, 5161), (35, 5230), (36, 5290), (37, 5365), (38, 5374),

Gene: SophKB_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for SophKB_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Sotrice96_11 Start: 5142, Stop: 6698, Start Num: 2

Candidate Starts for Sotrice96_11:

(Start: 1 @5139 has 20 MA's), (Start: 2 @5142 has 101 MA's), (3, 5181), (Start: 4 @5202 has 2 MA's), (5, 5232), (6, 5238), (7, 5244), (8, 5343), (9, 5352), (10, 5535), (11, 5541), (12, 5619), (13, 5634), (15, 5709), (17, 5769), (18, 5799), (19, 5898), (20, 5901), (21, 5904), (22, 5916), (23, 5937), (24, 5946), (25, 5952), (26, 6069), (27, 6093), (28, 6126), (29, 6168), (30, 6234), (31, 6279), (32, 6318), (33, 6345), (34, 6450), (35, 6519), (36, 6579), (37, 6654), (38, 6663),

Gene: Stank_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Stank_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Stark_11 Start: 4167, Stop: 5723, Start Num: 2

Candidate Starts for Stark_11:

(Start: 1 @4164 has 20 MA's), (Start: 2 @4167 has 101 MA's), (3, 4206), (Start: 4 @4227 has 2 MA's), (5, 4257), (6, 4263), (7, 4269), (8, 4368), (9, 4377), (10, 4560), (11, 4566), (12, 4644), (13, 4659), (14, 4683), (15, 4734), (16, 4743), (17, 4794), (19, 4923), (20, 4926), (21, 4929), (22, 4941), (23, 4962), (24, 4971), (25, 4977), (26, 5094), (27, 5118), (28, 5151), (29, 5193), (30, 5259), (31, 5304), (32, 5343), (33, 5370), (34, 5475), (35, 5544), (36, 5604), (37, 5679), (38, 5688),

Gene: StellaBean_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for StellaBean_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: StolenFromERC_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for StolenFromERC_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: TBrady12_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for TBrady12_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (15, 4966), (17, 5026), (18, 5056), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Tarkin_12 Start: 5395, Stop: 6951, Start Num: 2

Candidate Starts for Tarkin_12:

(Start: 1 @5392 has 20 MA's), (Start: 2 @5395 has 101 MA's), (3, 5434), (Start: 4 @5455 has 2 MA's), (5, 5485), (6, 5491), (7, 5497), (8, 5596), (9, 5605), (10, 5788), (11, 5794), (12, 5872), (13, 5887), (15, 5962), (17, 6022), (18, 6052), (19, 6151), (20, 6154), (21, 6157), (22, 6169), (23, 6190), (24, 6199), (25, 6205), (26, 6322), (27, 6346), (28, 6379), (29, 6421), (30, 6487), (31, 6532), (32, 6571), (33, 6598), (34, 6703), (35, 6772), (36, 6832), (37, 6907), (38, 6916),

Gene: TeardropMSU_10 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for TeardropMSU_10:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Teaspoon_10 Start: 3893, Stop: 5449, Start Num: 2

Candidate Starts for Teaspoon_10:

(Start: 1 @3890 has 20 MA's), (Start: 2 @3893 has 101 MA's), (3, 3932), (Start: 4 @3953 has 2 MA's), (5, 3983), (6, 3989), (7, 3995), (8, 4094), (9, 4103), (10, 4286), (11, 4292), (12, 4370), (13, 4385), (14, 4409), (15, 4460), (17, 4520), (18, 4550), (19, 4649), (20, 4652), (21, 4655), (22, 4667), (23, 4688), (24, 4697), (25, 4703), (26, 4820), (27, 4844), (28, 4877), (29, 4919), (30, 4985), (31, 5030), (32, 5069), (33, 5096), (34, 5201), (35, 5270), (36, 5330), (37, 5405), (38, 5414),

Gene: Terminus_10 Start: 4784, Stop: 6343, Start Num: 1

Candidate Starts for Terminus_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Thresher_11 Start: 5157, Stop: 6713, Start Num: 2

Candidate Starts for Thresher_11:

(Start: 1 @5154 has 20 MA's), (Start: 2 @5157 has 101 MA's), (3, 5196), (Start: 4 @5217 has 2 MA's), (5, 5247), (6, 5253), (7, 5259), (8, 5358), (9, 5367), (10, 5550), (11, 5556), (12, 5634), (13, 5649), (14, 5673), (15, 5724), (16, 5733), (17, 5784), (19, 5913), (20, 5916), (21, 5919), (22, 5931), (23, 5952), (24, 5961), (25, 5967), (26, 6084), (27, 6108), (28, 6141), (29, 6183), (30, 6249), (31, 6294), (32, 6333), (33, 6360), (34, 6465), (35, 6534), (36, 6594), (37, 6669), (38, 6678),

Gene: Tomaszewski_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Tomaszewski_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Toto_11 Start: 5183, Stop: 6742, Start Num: 1

Candidate Starts for Toto_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15,

5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Traaww1_9 Start: 4832, Stop: 6388, Start Num: 2

Candidate Starts for Traaww1_9:

(Start: 1 @4829 has 20 MA's), (Start: 2 @4832 has 101 MA's), (3, 4871), (Start: 4 @4892 has 2 MA's), (5, 4922), (6, 4928), (7, 4934), (8, 5033), (9, 5042), (10, 5225), (11, 5231), (12, 5309), (13, 5324), (14, 5348), (15, 5399), (16, 5408), (17, 5459), (18, 5489), (19, 5588), (20, 5591), (21, 5594), (22, 5606), (23, 5627), (24, 5636), (25, 5642), (26, 5759), (27, 5783), (28, 5816), (29, 5858), (30, 5924), (31, 5969), (32, 6008), (33, 6035), (34, 6140), (35, 6209), (36, 6269), (37, 6344), (38, 6353),

Gene: Tuco_11 Start: 5186, Stop: 6742, Start Num: 2

Candidate Starts for Tuco_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Ukulele_10 Start: 4167, Stop: 5723, Start Num: 2

Candidate Starts for Ukulele_10:

(Start: 1 @4164 has 20 MA's), (Start: 2 @4167 has 101 MA's), (3, 4206), (Start: 4 @4227 has 2 MA's), (5, 4257), (6, 4263), (7, 4269), (8, 4368), (9, 4377), (10, 4560), (11, 4566), (12, 4644), (13, 4659), (14, 4683), (15, 4734), (16, 4743), (17, 4794), (19, 4923), (20, 4926), (21, 4929), (22, 4941), (23, 4962), (24, 4971), (25, 4977), (26, 5094), (27, 5118), (28, 5151), (29, 5193), (30, 5259), (31, 5304), (32, 5343), (33, 5370), (34, 5475), (35, 5544), (36, 5604), (37, 5679), (38, 5688),

Gene: Wiggin_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Wiggin_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: Willez_10 Start: 4787, Stop: 6343, Start Num: 2

Candidate Starts for Willez_10:

(Start: 1 @4784 has 20 MA's), (Start: 2 @4787 has 101 MA's), (3, 4826), (Start: 4 @4847 has 2 MA's), (5, 4877), (6, 4883), (7, 4889), (8, 4988), (9, 4997), (10, 5180), (11, 5186), (12, 5264), (13, 5279), (15, 5354), (17, 5414), (18, 5444), (19, 5543), (20, 5546), (21, 5549), (22, 5561), (23, 5582), (24, 5591), (25, 5597), (26, 5714), (27, 5738), (28, 5771), (29, 5813), (30, 5879), (31, 5924), (32, 5963), (33, 5990), (34, 6095), (35, 6164), (36, 6224), (37, 6299), (38, 6308),

Gene: Xandras_12 Start: 4399, Stop: 5955, Start Num: 2

Candidate Starts for Xandras_12:

(Start: 1 @4396 has 20 MA's), (Start: 2 @4399 has 101 MA's), (3, 4438), (Start: 4 @4459 has 2 MA's), (5, 4489), (6, 4495), (7, 4501), (8, 4600), (9, 4609), (10, 4792), (11, 4798), (12, 4876), (13, 4891), (14, 4915), (15, 4966), (16, 4975), (17, 5026), (19, 5155), (20, 5158), (21, 5161), (22, 5173), (23, 5194), (24, 5203), (25, 5209), (26, 5326), (27, 5350), (28, 5383), (29, 5425), (30, 5491), (31, 5536), (32, 5575), (33, 5602), (34, 5707), (35, 5776), (36, 5836), (37, 5911), (38, 5920),

Gene: YassJohnny_11 Start: 5183, Stop: 6742, Start Num: 1

Candidate Starts for YassJohnny_11:

(Start: 1 @5183 has 20 MA's), (Start: 2 @5186 has 101 MA's), (3, 5225), (Start: 4 @5246 has 2 MA's), (5, 5276), (6, 5282), (7, 5288), (8, 5387), (9, 5396), (10, 5579), (11, 5585), (12, 5663), (13, 5678), (15, 5753), (17, 5813), (18, 5843), (19, 5942), (20, 5945), (21, 5948), (22, 5960), (23, 5981), (24, 5990), (25, 5996), (26, 6113), (27, 6137), (28, 6170), (29, 6212), (30, 6278), (31, 6323), (32, 6362), (33, 6389), (34, 6494), (35, 6563), (36, 6623), (37, 6698), (38, 6707),

Gene: Youngblood_10 Start: 4778, Stop: 6334, Start Num: 2

Candidate Starts for Youngblood_10:

(Start: 1 @4775 has 20 MA's), (Start: 2 @4778 has 101 MA's), (3, 4817), (Start: 4 @4838 has 2 MA's), (5, 4868), (6, 4874), (7, 4880), (8, 4979), (9, 4988), (10, 5171), (11, 5177), (12, 5255), (13, 5270), (15, 5345), (17, 5405), (18, 5435), (19, 5534), (20, 5537), (21, 5540), (22, 5552), (23, 5573), (24, 5582), (25, 5588), (26, 5705), (27, 5729), (28, 5762), (29, 5804), (30, 5870), (31, 5915), (32, 5954), (33, 5981), (34, 6086), (35, 6155), (36, 6215), (37, 6290), (38, 6299),

Gene: xkcd_11 Start: 4939, Stop: 6495, Start Num: 2

Candidate Starts for xkcd_11:

(Start: 1 @4936 has 20 MA's), (Start: 2 @4939 has 101 MA's), (3, 4978), (Start: 4 @4999 has 2 MA's), (5, 5029), (6, 5035), (7, 5041), (8, 5140), (9, 5149), (10, 5332), (11, 5338), (12, 5416), (13, 5431), (15, 5506), (17, 5566), (18, 5596), (19, 5695), (20, 5698), (21, 5701), (22, 5713), (23, 5734), (24, 5743), (25, 5749), (26, 5866), (27, 5890), (28, 5923), (29, 5965), (30, 6031), (31, 6076), (32, 6115), (33, 6142), (34, 6247), (35, 6316), (36, 6376), (37, 6451), (38, 6460),