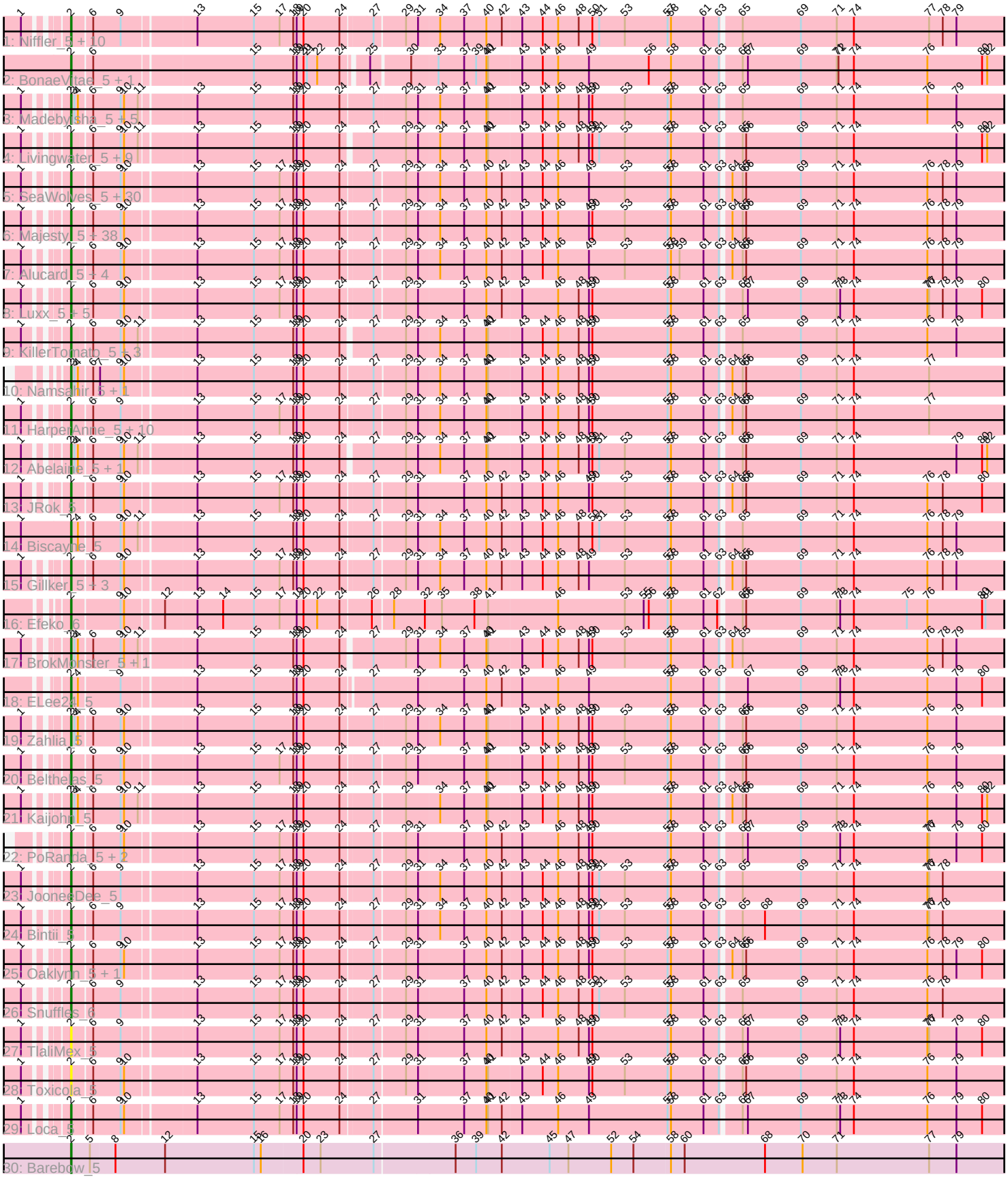
Pham 345464


1: Niffler_5 + 10
2: BonaeVitae_5 + 1
3: Madebyisha_5 + 5
4: Livingwater_5 + 9
5: SeaWolves_5 + 30
6: Majesty_5 + 38
7: Alucard_5 + 4
8: Luxx_5 + 5
9: KillerTomato_5 + 3
10: Namsahir_5 + 1
11: HarperAnne_5 + 10
12: Abelaine_5 + 1
13: JRok_5
14: Biscayne_5
15: Gillker_5 + 3
16: Efeko_6
17: BrokMonster_5 + 1
18: ELee24_5
19: Zahlia_5
20: Belthelas_5
21: Kaijoho_5
22: PoRanda_5 + 2
23: JooneeDee_5
24: Bintii_8
25: Oaklynn_8 + 1
26: Snuffles_6
27: TlaliMex_5
28: Toxicola_5
29: Loca_8
30: Barebow_5

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 345464 Report

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

Pham number 345464 has 154 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Niffler_5, Nobel_5, Miaurora_5, Yami_5, Lunatic_5, Trireme_5, TinyTruffula_5, Trackstar_5, Cazares_5, PuffyCat_5, Clownery_5
• Track 2 : BonaeVitae_5, Naby_5
• Track 3 : Madebyisha_5, Gabbspett_5, OdetoJoy_5, VitulaEligans_5, Jerky_5, Hernandez44_5
• Track 4 : Livingwater_5, MrGreen_5, Quaker_5, MelBee03_5, Sippinontea_5, Bodhi17_5, Kevanna_5, Douggie_5, Wolfpack_5, KayPaulus_5
• Track 5 : SeaWolves_5, Erin_5, Baine_5, Minima_5, Sachet_5, Lola20_5, ManAs_5, Jahseh_5, Yasuo_5, Eightball_5, Horacetta_5, Cayde6_5, Dooby_5, Jannah_5, Dongwon_5, GoldenBlanche_5, Myram_5, Picnic_5, Puddles3_5, KyriosFaba_5, PaoPu_5, Pondwater_5, LemonPepper_5, Anseraureola_5, YertPhresh_5, Sara_5, Goulash_5, Chatham_5, Danimal_5, EdElric_5, Duggle_5
• Track 6 : Majesty_5, Goobery_5, Scamander_5, NeumannU_5, Ciel_5, Vanisius_5, RoscoWindex_5, Owens_5, Avvas_5, SantasSleigh_5, TeddyBoy_5, LionelHutz_5, JaimeB_5, Otwor_5, DirtPie_5, Tyrellus_5, Marichuy_5, DaftyDuck_5, LaviMo_5, MasterPitts_5, Slentz_5, Burgy_5, Grayscar_5, Rhogar_5, Josuke_5, BurtonThePup_5, BarBear_5, Danno_5, BinkBonk_5, Godfather_5, Sage7_5, Rhysand_5, HeadMave_5, Scrunchy_5, Picconator_5, Aries55_5, Astro16_5, Kojax4_5, Cheesecake_5
• Track 7 : Alucard_5, JoBros_5, Gardevoir_5, Witch_5, Yubaba_5
• Track 8 : Luxx_5, TimoTea_5, Charbie_5, Jella_5, Maneater_5, Hulk_5
• Track 9 : KillerTomato_5, Concrete_5, Bri160_5, BoomRoasted_5
• Track 10 : Namsahir_5, Publix_5
• Track 11 : HarperAnne_5, Slizam_5, IzzyPants24_5, Ekko14_5, Elspeth_5, Rira_5, TomBrady12_5, Bullzi2019_5, Noelani_5, Stem_5, MauiIvory_5
• Track 12 : Abelaine_5, Leafy_5
• Track 13 : JRok_5
• Track 14 : Biscayne_5
• Track 15 : Gillker_5, Aztec_5, Bradley2_5, Octopus_5
• Track 16 : Efeko_6
• Track 17 : BrokMonster_5, McShie_5
• Track 18 : ELee24_5
• Track 19 : Zahlia_5
• Track 20 : Belthelas_5
• Track 21 : Kaijohn_5
• Track 22 : PoRanda_5, MirimarMandM_5, Upsilon_5
• Track 23 : JooneeDee_5

• Track 24 : Bintii_5
• Track 25 : Oaklynn_5, Azizam_5
• Track 26 : Snuffles_6
• Track 27 : TlaliMex_5
• Track 28 : Toxicola_5
• Track 29 : Loca_5
• Track 30 : Barebow_5

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 147 of the 147 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abelaine_5, Alucard_5, Anseraureola_5, Aries55_5, Astro16_5, Avvas_5, Azizam_5, Aztec_5, Baine_5, BarBear_5, Barebow_5, Belthelas_5, BinkBonk_5, Bintii_5, Biscayne_5, Bodhi17_5, BonaeVitae_5, BoomRoasted_5, Bradley2_5, Bri160_5, BrokMonster_5, Bullzi2019_5, Burgy_5, BurtonThePup_5, Cayde6_5, Cazares_5, Charbie_5, Chatham_5, Cheesecake_5, Ciel_5, Clownery_5, Concrete_5, DaftyDuck_5, Danimal_5, Danno_5, DirtPie_5, Dongwon_5, Dooby_5, Douggie_5, Duggle_5, ELee24_5, EdElric_5, Efeko_6, Eightball_5, Ekko14_5, Elspeth_5, Erin_5, Gabbspett_5, Gardevoir_5, Gillker_5, Godfather_5, GoldenBlanche_5, Goobery_5, Goulash_5, Grayscar_5, HarperAnne_5, HeadMave_5, Hernandez44_5, Horacetta_5, Hulk_5, IzzyPants24_5, JRok_5, Jahseh_5, JaimeB_5, Jannah_5, Jella_5, Jerky_5, JoBros_5, JooneeDee_5, Josuke_5, Kaijohn_5, KayPaulus_5, Kevanna_5, KillerTomato_5, Kojax4_5, KyriosFaba_5, LaviMo_5, Leafy_5, LemonPepper_5, LionelHutz_5, Livingwater_5, Loca_5, Lola20_5, Lunatic_5, Luxx_5, Madebyisha_5, Majesty_5, ManAs_5, Maneater_5, Marichuy_5, MasterPitts_5, MauiIvory_5, McShie_5, MelBee03_5, Miaurora_5, Minima_5, MirimarMandM_5, MrGreen_5, Myram_5, Naby_5, Namsahir_5, NeumannU_5, Niffler_5, Nobel_5, Noelani_5, Oaklynn_5, Octopus_5, OdetoJoy_5, Otwor_5, Owens_5, PaoPu_5, Picconator_5, Picnic_5, PoRanda_5, Pondwater_5, Publix_5, Puddles3_5, PuffyCat_5, Quaker_5, Rhogar_5, Rhysand_5, Rira_5, RoscoWindex_5, Sachet_5, Sage7_5, SantasSleigh_5, Sara_5, Scamander_5, Scrunchy_5, SeaWolves_5, Sippinontea_5, Slentz_5, Slizam_5, Snuffles_6, Stem_5, TeddyBoy_5, TimoTea_5, TinyTruffula_5, TlaliMex_5, TomBrady12_5, Toxicola_5, Trackstar_5, Trireme_5, Tyrellus_5, Upsilon_5, Vanisius_5, VitulaEligans_5, Witch_5, Wolfpack_5, Yami_5, Yasuo_5, YertPhresh_5, Yubaba_5, Zahlia_5,

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

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

Summary by start number:

Start 2:
• Found in 154 of 154 (100.0%) of genes in pham
• Manual Annotations of this start: 147 of 147

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abelaine_5 (EE), Alucard_5 (EE), Anseraureola_5 (EE), Aries55_5 (EE), Astro16_5 (EE), Avvas_5 (EE), Azizam_5 (EE), Aztec_5 (EE), Baine_5 (EE), BarBear_5 (EE), Barebow_5 (singleton), Belthelas_5 (EE), BinkBonk_5 (EE), Bintii_5 (EE), Biscayne_5 (EE), Bodhi17_5 (EE), BonaeVitae_5 (EE), BoomRoasted_5 (EE), Bradley2_5 (EE), Bri160_5 (EE), BrokMonster_5 (EE), Bullzi2019_5 (EE), Burgy_5 (EE), BurtonThePup_5 (EE), Cayde6_5 (EE), Cazares_5 (EE), Charbie_5 (EE), Chatham_5 (EE), Cheesecake_5 (EE), Ciel_5 (EE), Clownery_5 (EE), Concrete_5 (EE), DaftyDuck_5 (EE), Danimal_5 (EE), Danno_5 (EE), DirtPie_5 (EE), Dongwon_5 (EE), Dooby_5 (EE), Douggie_5 (EE), Duggle_5 (EE), ELee24_5 (EE), EdElric_5 (EE), Efeko_6 (EE), Eightball_5 (EE), Ekko14_5 (EE), Elspeth_5 (EE), Erin_5 (EE), Gabbspett_5 (EE), Gardevoir_5 (EE), Gillker_5 (EE), Godfather_5 (EE), GoldenBlanche_5 (EE), Goobery_5 (EE), Goulash_5 (EE), Grayscar_5 (EE), HarperAnne_5 (EE), HeadMave_5 (EE), Hernandez44_5 (EE), Horacetta_5 (EE), Hulk_5 (EE), IzzyPants24_5 (EE), JRok_5 (EE), Jahseh_5 (EE), JaimeB_5 (EE), Jannah_5 (EE), Jella_5 (EE), Jerky_5 (EE), JoBros_5 (EE), JooneeDee_5 (EE), Josuke_5 (EE), Kaijohn_5 (EE), KayPaulus_5 (EE), Kevanna_5 (EE), KillerTomato_5 (EE), Kojax4_5 (EE), KyriosFaba_5 (EE), LaviMo_5 (EE), Leafy_5 (EE), LemonPepper_5 (EE), LionelHutz_5 (EE), Livingwater_5 (EE), Loca_5 (EE), Lola20_5 (EE), Lunatic_5 (EE), Luxx_5 (EE), Madebyisha_5 (EE), Majesty_5 (EE), ManAs_5 (EE), Maneater_5 (EE), Marichuy_5 (EE), MasterPitts_5 (EE), MauiIvory_5 (EE), McShie_5 (EE), MelBee03_5 (EE), Miaurora_5 (EE), Minima_5 (EE), MirimarMandM_5 (EE), MrGreen_5 (EE), Myram_5 (EE), Naby_5 (EE), Namsahir_5 (EE), NeumannU_5 (EE), Niffler_5 (EE), Nobel_5 (EE), Noelani_5 (EE), Oaklynn_5 (EE), Octopus_5 (EE), OdetoJoy_5 (EE), Otwor_5 (EE), Owens_5 (EE), PaoPu_5 (EE), Picconator_5 (EE), Picnic_5 (EE), PoRanda_5 (EE), Pondwater_5 (EE), Publix_5 (EE), Puddles3_5 (EE), PuffyCat_5 (EE), Quaker_5 (EE), Rhogar_5 (EE), Rhysand_5 (EE), Rira_5 (EE), RoscoWindex_5 (EE), Sachet_5 (EE), Sage7_5 (EE), SantasSleigh_5 (EE), Sara_5 (EE), Scamander_5 (EE), Scrunchy_5 (EE), SeaWolves_5 (EE), Sippinontea_5 (EE), Slentz_5 (EE), Slizam_5 (EE), Snuffles_6 (EE), Stem_5 (EE), TeddyBoy_5 (EE), TimoTea_5 (EE), TinyTruffula_5 (EE), TlaliMex_5 (EE), TomBrady12_5 (EE), Toxicola_5 (EE), Trackstar_5 (EE), Trireme_5 (EE), Tyrellus_5 (EE), Upsilon_5 (EE), Vanisius_5 (EE), VitulaEligans_5 (EE), Witch_5 (EE), Wolfpack_5 (EE), Yami_5 (EE), Yasuo_5 (EE), YertPhresh_5 (EE), Yubaba_5 (EE), Zahlia_5 (EE),

Summary by clusters:

There are 2 clusters represented in this pham: EE, singleton,

Info for manual annotations of cluster EE:
•Start number 2 was manually annotated 146 times for cluster EE.

Gene Information:

Gene: Abelaine_5 Start: 3801, Stop: 5387, Start Num: 2
Candidate Starts for Abelaine_5:
(1, 3747), (Start: 2 @3801 has 147 MA's), (3, 3807), (4, 3813), (6, 3834), (9, 3876), (10, 3882), (11, 3906), (13, 3996), (15, 4095), (18, 4164), (19, 4170), (20, 4182), (24, 4245), (27, 4290), (29, 4347), (31, 4368), (34, 4404), (37, 4446), (40, 4485), (41, 4488), (43, 4545), (44, 4581), (46, 4608), (48, 4644), (49, 4662), (50, 4668), (51, 4680), (53, 4725), (57, 4800), (58, 4806), (61, 4863), (63, 4890), (65, 4920), (66,

4926), (69, 5022), (71, 5085), (74, 5115), (79, 5295), (80, 5340), (82, 5349),

Gene: Alucard_5 Start: 3784, Stop: 5370, Start Num: 2
Candidate Starts for Alucard_5:
(1, 3730), (Start: 2 @3784 has 147 MA's), (6, 3817), (9, 3859), (10, 3865), (13, 3979), (15, 4078), (17, 4123), (18, 4147), (19, 4153), (20, 4165), (24, 4228), (27, 4279), (29, 4330), (31, 4351), (34, 4387), (37, 4429), (40, 4468), (42, 4495), (43, 4528), (44, 4564), (46, 4591), (49, 4645), (53, 4708), (57, 4783), (58, 4789), (59, 4804), (61, 4846), (63, 4873), (64, 4885), (65, 4903), (66, 4909), (69, 5005), (71, 5068), (74, 5098), (76, 5227), (78, 5254), (79, 5278),

Gene: Anseraureola_5 Start: 3807, Stop: 5393, Start Num: 2
Candidate Starts for Anseraureola_5:
(1, 3753), (Start: 2 @3807 has 147 MA's), (6, 3840), (9, 3882), (10, 3888), (13, 4002), (15, 4101), (17, 4146), (18, 4170), (19, 4176), (20, 4188), (24, 4251), (27, 4302), (29, 4353), (31, 4374), (34, 4410), (37, 4452), (40, 4491), (42, 4518), (43, 4551), (44, 4587), (46, 4614), (49, 4668), (53, 4731), (57, 4806), (58, 4812), (61, 4869), (63, 4896), (64, 4908), (65, 4926), (66, 4932), (69, 5028), (71, 5091), (74, 5121), (76, 5250), (78, 5277), (79, 5301),

Gene: Aries55_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Aries55_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Astro16_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Astro16_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Avvas_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Avvas_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Azizam_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Azizam_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (48, 4626), (49, 4644), (50, 4650), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277), (80, 5322),

Gene: Aztec_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Aztec_5:

(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (48, 4626), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Baine_5 Start: 3780, Stop: 5366, Start Num: 2
Candidate Starts for Baine_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3813), (9, 3855), (10, 3861), (13, 3975), (15, 4074), (17, 4119), (18, 4143), (19, 4149), (20, 4161), (24, 4224), (27, 4275), (29, 4326), (31, 4347), (34, 4383), (37, 4425), (40, 4464), (42, 4491), (43, 4524), (44, 4560), (46, 4587), (49, 4641), (53, 4704), (57, 4779), (58, 4785), (61, 4842), (63, 4869), (64, 4881), (65, 4899), (66, 4905), (69, 5001), (71, 5064), (74, 5094), (76, 5223), (78, 5250), (79, 5274),

Gene: BarBear_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for BarBear_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Barebow_5 Start: 3370, Stop: 4983, Start Num: 2
Candidate Starts for Barebow_5:
(Start: 2 @3370 has 147 MA's), (5, 3403), (8, 3439), (12, 3526), (15, 3682), (16, 3694), (20, 3763), (23, 3793), (27, 3886), (36, 4021), (39, 4057), (42, 4102), (45, 4186), (47, 4219), (52, 4294), (54, 4333), (58, 4396), (60, 4420), (68, 4561), (70, 4627), (71, 4687), (77, 4849), (79, 4897),

Gene: Belthelas_5 Start: 3834, Stop: 5420, Start Num: 2
Candidate Starts for Belthelas_5:
(1, 3780), (Start: 2 @3834 has 147 MA's), (6, 3867), (9, 3909), (10, 3915), (13, 4029), (15, 4128), (17, 4173), (18, 4197), (19, 4203), (20, 4215), (24, 4278), (27, 4329), (29, 4380), (31, 4401), (37, 4479), (40, 4518), (41, 4521), (43, 4578), (44, 4614), (46, 4641), (48, 4677), (49, 4695), (50, 4701), (53, 4758), (57, 4833), (58, 4839), (61, 4896), (63, 4923), (65, 4953), (66, 4959), (69, 5055), (71, 5118), (74, 5148), (76, 5277), (79, 5328),

Gene: BinkBonk_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for BinkBonk_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Bintii_5 Start: 3813, Stop: 5399, Start Num: 2
Candidate Starts for Bintii_5:
(1, 3759), (Start: 2 @3813 has 147 MA's), (6, 3846), (9, 3888), (13, 4008), (15, 4107), (17, 4152), (18, 4176), (19, 4182), (20, 4194), (24, 4257), (27, 4308), (29, 4359), (31, 4380), (34, 4416), (37, 4458), (40, 4497), (42, 4524), (43, 4557), (44, 4593), (46, 4620), (48, 4656), (49, 4674), (50, 4680), (51, 4692), (53, 4737), (57, 4812), (58, 4818), (61, 4875), (63, 4902), (65, 4932), (68, 4971), (69, 5034), (71, 5097), (74, 5127), (76, 5256), (77, 5259), (78, 5283),

Gene: Biscayne_5 Start: 3841, Stop: 5427, Start Num: 2

Candidate Starts for Biscayne_5:
(1, 3757), (Start: 2 @3841 has 147 MA's), (4, 3853), (6, 3874), (9, 3916), (10, 3922), (11, 3946), (13, 4036), (15, 4135), (18, 4204), (19, 4210), (20, 4222), (24, 4285), (27, 4336), (29, 4387), (31, 4408), (34, 4444), (37, 4486), (40, 4525), (42, 4552), (43, 4585), (44, 4621), (46, 4648), (48, 4684), (50, 4708), (51, 4720), (53, 4765), (57, 4840), (58, 4846), (61, 4903), (63, 4930), (65, 4960), (69, 5062), (71, 5125), (74, 5155), (76, 5284), (78, 5311), (79, 5335),

Gene: Bodhi17_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for Bodhi17_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37, 4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: BonaeVitae_5 Start: 3530, Stop: 5104, Start Num: 2
Candidate Starts for BonaeVitae_5:
(Start: 2 @3530 has 147 MA's), (6, 3563), (15, 3824), (18, 3893), (19, 3899), (20, 3911), (21, 3917), (22, 3935), (24, 3974), (25, 4010), (30, 4073), (33, 4118), (37, 4163), (39, 4184), (40, 4202), (41, 4205), (43, 4262), (44, 4298), (46, 4325), (49, 4379), (56, 4484), (58, 4523), (61, 4580), (63, 4607), (65, 4637), (67, 4646), (69, 4739), (71, 4802), (72, 4805), (74, 4832), (76, 4961), (80, 5057), (82, 5066),

Gene: BoomRoasted_5 Start: 3834, Stop: 5417, Start Num: 2
Candidate Starts for BoomRoasted_5:
(1, 3780), (Start: 2 @3834 has 147 MA's), (6, 3864), (9, 3906), (10, 3912), (11, 3936), (13, 4026), (15, 4125), (18, 4194), (19, 4200), (20, 4212), (24, 4275), (27, 4320), (29, 4377), (31, 4398), (34, 4434), (37, 4476), (40, 4515), (41, 4518), (43, 4575), (44, 4611), (46, 4638), (48, 4674), (49, 4692), (50, 4698), (57, 4830), (58, 4836), (61, 4893), (63, 4920), (65, 4950), (69, 5052), (71, 5115), (74, 5145), (76, 5274), (79, 5325),

Gene: Bradley2_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Bradley2_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (48, 4626), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Bri160_5 Start: 3834, Stop: 5417, Start Num: 2
Candidate Starts for Bri160_5:
(1, 3780), (Start: 2 @3834 has 147 MA's), (6, 3864), (9, 3906), (10, 3912), (11, 3936), (13, 4026), (15, 4125), (18, 4194), (19, 4200), (20, 4212), (24, 4275), (27, 4320), (29, 4377), (31, 4398), (34, 4434), (37, 4476), (40, 4515), (41, 4518), (43, 4575), (44, 4611), (46, 4638), (48, 4674), (49, 4692), (50, 4698), (57, 4830), (58, 4836), (61, 4893), (63, 4920), (65, 4950), (69, 5052), (71, 5115), (74, 5145), (76, 5274), (79, 5325),

Gene: BrokMonster_5 Start: 3780, Stop: 5369, Start Num: 2
Candidate Starts for BrokMonster_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (3, 3786), (4, 3792), (6, 3813), (9, 3855), (10, 3861), (11, 3885), (13, 3975), (15, 4074), (18, 4143), (19, 4149), (20, 4161), (24, 4224), (27, 4269), (29, 4326), (31, 4347), (34, 4386), (37, 4428), (40, 4467), (41, 4470), (43, 4527), (44, 4563), (46, 4590), (48, 4626), (49, 4644), (50, 4650), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Bullzi2019_5 Start: 3804, Stop: 5390, Start Num: 2
Candidate Starts for Bullzi2019_5:
(1, 3750), (Start: 2 @3804 has 147 MA's), (6, 3837), (9, 3879), (13, 3999), (15, 4098), (17, 4143), (18, 4167), (19, 4173), (20, 4185), (24, 4248), (27, 4299), (29, 4350), (31, 4371), (34, 4407), (37, 4449), (40, 4488), (41, 4491), (43, 4548), (44, 4584), (46, 4611), (48, 4647), (49, 4665), (50, 4671), (57, 4803), (58, 4809), (61, 4866), (63, 4893), (64, 4905), (65, 4923), (66, 4929), (69, 5025), (71, 5088), (74, 5118), (77, 5250),

Gene: Burgy_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Burgy_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: BurtonThePup_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for BurtonThePup_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Cayde6_5 Start: 3780, Stop: 5366, Start Num: 2
Candidate Starts for Cayde6_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3813), (9, 3855), (10, 3861), (13, 3975), (15, 4074), (17, 4119), (18, 4143), (19, 4149), (20, 4161), (24, 4224), (27, 4275), (29, 4326), (31, 4347), (34, 4383), (37, 4425), (40, 4464), (42, 4491), (43, 4524), (44, 4560), (46, 4587), (49, 4641), (53, 4704), (57, 4779), (58, 4785), (61, 4842), (63, 4869), (64, 4881), (65, 4899), (66, 4905), (69, 5001), (71, 5064), (74, 5094), (76, 5223), (78, 5250), (79, 5274),

Gene: Cazares_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for Cazares_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (34, 4374), (37, 4416), (40, 4455), (42, 4482), (43, 4515), (44, 4551), (46, 4578), (48, 4614), (50, 4638), (51, 4650), (53, 4695), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (65, 4890), (69, 4992), (71, 5055), (74, 5085), (77, 5217), (78, 5241), (79, 5265),

Gene: Charbie_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for Charbie_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (10, 3852), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (37, 4416), (40, 4455), (42, 4482), (43, 4515), (46, 4578), (48, 4614), (49, 4632), (50, 4638), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (65, 4890), (67, 4899), (69, 4992), (71, 5055), (73, 5061), (74, 5085), (76, 5214), (77, 5217), (78, 5241), (79, 5265), (80, 5310),

Gene: Chatham_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Chatham_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37,

4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Cheesecake_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Cheesecake_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Ciel_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Ciel_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Clownery_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for Clownery_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (42, 4599), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (50, 4755), (51, 4767), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (69, 5109), (71, 5172), (74, 5202), (77, 5334), (78, 5358), (79, 5382),

Gene: Concrete_5 Start: 3834, Stop: 5417, Start Num: 2
Candidate Starts for Concrete_5:
(1, 3780), (Start: 2 @3834 has 147 MA's), (6, 3864), (9, 3906), (10, 3912), (11, 3936), (13, 4026), (15, 4125), (18, 4194), (19, 4200), (20, 4212), (24, 4275), (27, 4320), (29, 4377), (31, 4398), (34, 4434), (37, 4476), (40, 4515), (41, 4518), (43, 4575), (44, 4611), (46, 4638), (48, 4674), (49, 4692), (50, 4698), (57, 4830), (58, 4836), (61, 4893), (63, 4920), (65, 4950), (69, 5052), (71, 5115), (74, 5145), (76, 5274), (79, 5325),

Gene: DaftyDuck_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for DaftyDuck_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Danimal_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Danimal_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Danno_5 Start: 3795, Stop: 5381, Start Num: 2

Candidate Starts for Danno_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: DirtPie_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for DirtPie_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (10, 3969), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (42, 4599), (43, 4632), (44, 4668), (46, 4695), (49, 4749), (50, 4755), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (64, 4989), (65, 5007), (66, 5013), (69, 5109), (71, 5172), (74, 5202), (76, 5331), (78, 5358), (79, 5382),

Gene: Dongwon_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Dongwon_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Dooby_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Dooby_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Douggie_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for Douggie_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37, 4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: Duggle_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Duggle_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: ELee24_5 Start: 3837, Stop: 5423, Start Num: 2
Candidate Starts for ELee24_5:
(Start: 2 @3837 has 147 MA's), (4, 3849), (9, 3912), (13, 4032), (15, 4131), (18, 4200), (19, 4206), (20, 4218), (24, 4281), (27, 4326), (31, 4404), (37, 4482), (40, 4521), (42, 4548), (43, 4581), (46, 4644), (49, 4698), (57, 4836), (58, 4842), (61, 4899), (63, 4926), (67, 4965), (69, 5058), (71, 5121), (73, 5127), (74, 5151), (76, 5280), (79, 5331), (80, 5376),

Gene: EdElric_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for EdElric_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Efeko_6 Start: 3689, Stop: 5278, Start Num: 2
Candidate Starts for Efeko_6:
(Start: 2 @3689 has 147 MA's), (9, 3770), (10, 3776), (12, 3836), (13, 3890), (14, 3935), (15, 3989), (17, 4034), (19, 4064), (20, 4076), (22, 4100), (24, 4139), (26, 4190), (28, 4223), (32, 4277), (35, 4304), (38, 4361), (41, 4385), (46, 4505), (53, 4622), (55, 4655), (56, 4664), (57, 4697), (58, 4703), (61, 4760), (62, 4784), (65, 4817), (66, 4823), (69, 4919), (71, 4982), (73, 4988), (74, 5012), (75, 5105), (76, 5141), (80, 5237), (81, 5243),

Gene: Eightball_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Eightball_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Ekko14_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for Ekko14_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (34, 4374), (37, 4416), (40, 4455), (41, 4458), (43, 4515), (44, 4551), (46, 4578), (48, 4614), (49, 4632), (50, 4638), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (64, 4872), (65, 4890), (66, 4896), (69, 4992), (71, 5055), (74, 5085), (77, 5217),

Gene: Elspeth_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for Elspeth_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (34, 4374), (37, 4416), (40, 4455), (41, 4458), (43, 4515), (44, 4551), (46, 4578), (48, 4614), (49, 4632), (50, 4638), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (64, 4872), (65, 4890), (66, 4896), (69, 4992), (71, 5055), (74, 5085), (77, 5217),

Gene: Erin_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Erin_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Gabbspett_5 Start: 3885, Stop: 5474, Start Num: 2
Candidate Starts for Gabbspett_5:
(1, 3831), (Start: 2 @3885 has 147 MA's), (3, 3891), (4, 3897), (6, 3918), (9, 3960), (10, 3966), (11, 3990), (13, 4080), (15, 4179), (18, 4248), (19, 4254), (20, 4266), (24, 4329), (27, 4383), (29, 4434), (31,

4455), (34, 4491), (37, 4533), (40, 4572), (41, 4575), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (49, 4749), (50, 4755), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (69, 5109), (71, 5172), (74, 5202), (76, 5331), (79, 5382),

Gene: Gardevoir_5 Start: 3784, Stop: 5370, Start Num: 2
Candidate Starts for Gardevoir_5:
(1, 3730), (Start: 2 @3784 has 147 MA's), (6, 3817), (9, 3859), (10, 3865), (13, 3979), (15, 4078), (17, 4123), (18, 4147), (19, 4153), (20, 4165), (24, 4228), (27, 4279), (29, 4330), (31, 4351), (34, 4387), (37, 4429), (40, 4468), (42, 4495), (43, 4528), (44, 4564), (46, 4591), (49, 4645), (53, 4708), (57, 4783), (58, 4789), (59, 4804), (61, 4846), (63, 4873), (64, 4885), (65, 4903), (66, 4909), (69, 5005), (71, 5068), (74, 5098), (76, 5227), (78, 5254), (79, 5278),

Gene: Gillker_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Gillker_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (48, 4626), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Godfather_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Godfather_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: GoldenBlanche_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for GoldenBlanche_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Goobery_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Goobery_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Goulash_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Goulash_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Grayscar_5 Start: 3795, Stop: 5381, Start Num: 2

Candidate Starts for Grayscar_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: HarperAnne_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for HarperAnne_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (34, 4374), (37, 4416), (40, 4455), (41, 4458), (43, 4515), (44, 4551), (46, 4578), (48, 4614), (49, 4632), (50, 4638), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (64, 4872), (65, 4890), (66, 4896), (69, 4992), (71, 5055), (74, 5085), (77, 5217),

Gene: HeadMave_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for HeadMave_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Hernandez44_5 Start: 3885, Stop: 5474, Start Num: 2
Candidate Starts for Hernandez44_5:
(1, 3831), (Start: 2 @3885 has 147 MA's), (3, 3891), (4, 3897), (6, 3918), (9, 3960), (10, 3966), (11, 3990), (13, 4080), (15, 4179), (18, 4248), (19, 4254), (20, 4266), (24, 4329), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (41, 4575), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (49, 4749), (50, 4755), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (69, 5109), (71, 5172), (74, 5202), (76, 5331), (79, 5382),

Gene: Horacetta_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Horacetta_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Hulk_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Hulk_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (46, 4602), (48, 4638), (49, 4656), (50, 4662), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (65, 4914), (67, 4923), (69, 5016), (71, 5079), (73, 5085), (74, 5109), (76, 5238), (77, 5241), (78, 5265), (79, 5289), (80, 5334),

Gene: IzzyPants24_5 Start: 3822, Stop: 5408, Start Num: 2
Candidate Starts for IzzyPants24_5:
(1, 3768), (Start: 2 @3822 has 147 MA's), (6, 3855), (9, 3897), (13, 4017), (15, 4116), (17, 4161), (18, 4185), (19, 4191), (20, 4203), (24, 4266), (27, 4317), (29, 4368), (31, 4389), (34, 4425), (37, 4467), (40, 4506), (41, 4509), (43, 4566), (44, 4602), (46, 4629), (48, 4665), (49, 4683), (50, 4689), (57, 4821), (58, 4827), (61, 4884), (63, 4911), (64, 4923), (65, 4941), (66, 4947), (69, 5043), (71, 5106), (74, 5136), (77,

5268),

Gene: JRok_5 Start: 3780, Stop: 5366, Start Num: 2
Candidate Starts for JRok_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3813), (9, 3855), (10, 3861), (13, 3975), (15, 4074), (17, 4119), (18, 4143), (19, 4149), (20, 4161), (24, 4224), (27, 4275), (29, 4326), (31, 4347), (37, 4425), (40, 4464), (42, 4491), (43, 4524), (44, 4560), (46, 4587), (49, 4641), (50, 4647), (53, 4704), (57, 4779), (58, 4785), (61, 4842), (63, 4869), (64, 4881), (65, 4899), (66, 4905), (69, 5001), (71, 5064), (74, 5094), (76, 5223), (78, 5250), (80, 5319),

Gene: Jahseh_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Jahseh_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: JaimeB_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for JaimeB_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Jannah_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Jannah_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Jella_5 Start: 3807, Stop: 5393, Start Num: 2
Candidate Starts for Jella_5:
(1, 3753), (Start: 2 @3807 has 147 MA's), (6, 3840), (9, 3882), (10, 3888), (13, 4002), (15, 4101), (17, 4146), (18, 4170), (19, 4176), (20, 4188), (24, 4251), (27, 4302), (29, 4353), (31, 4374), (37, 4452), (40, 4491), (42, 4518), (43, 4551), (46, 4614), (48, 4650), (49, 4668), (50, 4674), (57, 4806), (58, 4812), (61, 4869), (63, 4896), (65, 4926), (67, 4935), (69, 5028), (71, 5091), (73, 5097), (74, 5121), (76, 5250), (77, 5253), (78, 5277), (79, 5301), (80, 5346),

Gene: Jerky_5 Start: 3864, Stop: 5453, Start Num: 2
Candidate Starts for Jerky_5:
(1, 3810), (Start: 2 @3864 has 147 MA's), (3, 3870), (4, 3876), (6, 3897), (9, 3939), (10, 3945), (11, 3969), (13, 4059), (15, 4158), (18, 4227), (19, 4233), (20, 4245), (24, 4308), (27, 4362), (29, 4413), (31, 4434), (34, 4470), (37, 4512), (40, 4551), (41, 4554), (43, 4611), (44, 4647), (46, 4674), (48, 4710), (49, 4728), (50, 4734), (53, 4791), (57, 4866), (58, 4872), (61, 4929), (63, 4956), (65, 4986), (69, 5088), (71, 5151), (74, 5181), (76, 5310), (79, 5361),

Gene: JoBros_5 Start: 3784, Stop: 5370, Start Num: 2
Candidate Starts for JoBros_5:

(1, 3730), (Start: 2 @3784 has 147 MA's), (6, 3817), (9, 3859), (10, 3865), (13, 3979), (15, 4078), (17, 4123), (18, 4147), (19, 4153), (20, 4165), (24, 4228), (27, 4279), (29, 4330), (31, 4351), (34, 4387), (37, 4429), (40, 4468), (42, 4495), (43, 4528), (44, 4564), (46, 4591), (49, 4645), (53, 4708), (57, 4783), (58, 4789), (59, 4804), (61, 4846), (63, 4873), (64, 4885), (65, 4903), (66, 4909), (69, 5005), (71, 5068), (74, 5098), (76, 5227), (78, 5254), (79, 5278),

Gene: JooneeDee_5 Start: 3813, Stop: 5399, Start Num: 2
Candidate Starts for JooneeDee_5:
(1, 3759), (Start: 2 @3813 has 147 MA's), (6, 3846), (9, 3888), (13, 4008), (15, 4107), (17, 4152), (18, 4176), (19, 4182), (20, 4194), (24, 4257), (27, 4308), (29, 4359), (31, 4380), (34, 4416), (37, 4458), (40, 4497), (42, 4524), (43, 4557), (44, 4593), (46, 4620), (48, 4656), (49, 4674), (50, 4680), (51, 4692), (53, 4737), (57, 4812), (58, 4818), (61, 4875), (63, 4902), (65, 4932), (69, 5034), (71, 5097), (74, 5127), (76, 5256), (77, 5259), (78, 5283),

Gene: Josuke_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Josuke_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Kaijohn_5 Start: 3789, Stop: 5375, Start Num: 2
Candidate Starts for Kaijohn_5:
(1, 3735), (Start: 2 @3789 has 147 MA's), (3, 3795), (4, 3801), (6, 3822), (9, 3864), (10, 3870), (11, 3894), (13, 3984), (15, 4083), (18, 4152), (19, 4158), (20, 4170), (24, 4233), (27, 4284), (29, 4335), (34, 4392), (37, 4434), (40, 4473), (41, 4476), (43, 4533), (44, 4569), (46, 4596), (48, 4632), (49, 4650), (50, 4656), (57, 4788), (58, 4794), (61, 4851), (63, 4878), (64, 4890), (65, 4908), (66, 4914), (69, 5010), (71, 5073), (74, 5103), (76, 5232), (79, 5283), (80, 5328), (82, 5337),

Gene: KayPaulus_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for KayPaulus_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37, 4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: Kevanna_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for Kevanna_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37, 4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: KillerTomato_5 Start: 3834, Stop: 5417, Start Num: 2
Candidate Starts for KillerTomato_5:
(1, 3780), (Start: 2 @3834 has 147 MA's), (6, 3864), (9, 3906), (10, 3912), (11, 3936), (13, 4026), (15, 4125), (18, 4194), (19, 4200), (20, 4212), (24, 4275), (27, 4320), (29, 4377), (31, 4398), (34, 4434), (37, 4476), (40, 4515), (41, 4518), (43, 4575), (44, 4611), (46, 4638), (48, 4674), (49, 4692), (50, 4698), (57, 4830), (58, 4836), (61, 4893), (63, 4920), (65, 4950), (69, 5052), (71, 5115), (74, 5145), (76, 5274), (79, 5325),

Gene: Kojax4_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Kojax4_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: KyriosFaba_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for KyriosFaba_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: LaviMo_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for LaviMo_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Leafy_5 Start: 3801, Stop: 5387, Start Num: 2
Candidate Starts for Leafy_5:
(1, 3747), (Start: 2 @3801 has 147 MA's), (3, 3807), (4, 3813), (6, 3834), (9, 3876), (10, 3882), (11, 3906), (13, 3996), (15, 4095), (18, 4164), (19, 4170), (20, 4182), (24, 4245), (27, 4290), (29, 4347), (31, 4368), (34, 4404), (37, 4446), (40, 4485), (41, 4488), (43, 4545), (44, 4581), (46, 4608), (48, 4644), (49, 4662), (50, 4668), (51, 4680), (53, 4725), (57, 4800), (58, 4806), (61, 4863), (63, 4890), (65, 4920), (66, 4926), (69, 5022), (71, 5085), (74, 5115), (79, 5295), (80, 5340), (82, 5349),

Gene: LemonPepper_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for LemonPepper_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: LionelHutz_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for LionelHutz_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Livingwater_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for Livingwater_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37,

4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: Loca_5 Start: 3801, Stop: 5390, Start Num: 2
Candidate Starts for Loca_5:
(1, 3747), (Start: 2 @3801 has 147 MA's), (6, 3834), (9, 3876), (10, 3882), (13, 3996), (15, 4095), (17, 4140), (18, 4164), (19, 4170), (20, 4182), (24, 4245), (27, 4296), (31, 4368), (37, 4449), (40, 4488), (41, 4491), (42, 4515), (43, 4548), (46, 4611), (49, 4665), (57, 4803), (58, 4809), (61, 4866), (63, 4893), (65, 4923), (67, 4932), (69, 5025), (71, 5088), (73, 5094), (74, 5118), (76, 5247), (79, 5298), (80, 5343),

Gene: Lola20_5 Start: 3780, Stop: 5366, Start Num: 2
Candidate Starts for Lola20_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3813), (9, 3855), (10, 3861), (13, 3975), (15, 4074), (17, 4119), (18, 4143), (19, 4149), (20, 4161), (24, 4224), (27, 4275), (29, 4326), (31, 4347), (34, 4383), (37, 4425), (40, 4464), (42, 4491), (43, 4524), (44, 4560), (46, 4587), (49, 4641), (53, 4704), (57, 4779), (58, 4785), (61, 4842), (63, 4869), (64, 4881), (65, 4899), (66, 4905), (69, 5001), (71, 5064), (74, 5094), (76, 5223), (78, 5250), (79, 5274),

Gene: Lunatic_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for Lunatic_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (34, 4374), (37, 4416), (40, 4455), (42, 4482), (43, 4515), (44, 4551), (46, 4578), (48, 4614), (50, 4638), (51, 4650), (53, 4695), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (65, 4890), (69, 4992), (71, 5055), (74, 5085), (77, 5217), (78, 5241), (79, 5265),

Gene: Luxx_5 Start: 3807, Stop: 5393, Start Num: 2
Candidate Starts for Luxx_5:
(1, 3753), (Start: 2 @3807 has 147 MA's), (6, 3840), (9, 3882), (10, 3888), (13, 4002), (15, 4101), (17, 4146), (18, 4170), (19, 4176), (20, 4188), (24, 4251), (27, 4302), (29, 4353), (31, 4374), (37, 4452), (40, 4491), (42, 4518), (43, 4551), (46, 4614), (48, 4650), (49, 4668), (50, 4674), (57, 4806), (58, 4812), (61, 4869), (63, 4896), (65, 4926), (67, 4935), (69, 5028), (71, 5091), (73, 5097), (74, 5121), (76, 5250), (77, 5253), (78, 5277), (79, 5301), (80, 5346),

Gene: Madebyisha_5 Start: 3864, Stop: 5453, Start Num: 2
Candidate Starts for Madebyisha_5:
(1, 3810), (Start: 2 @3864 has 147 MA's), (3, 3870), (4, 3876), (6, 3897), (9, 3939), (10, 3945), (11, 3969), (13, 4059), (15, 4158), (18, 4227), (19, 4233), (20, 4245), (24, 4308), (27, 4362), (29, 4413), (31, 4434), (34, 4470), (37, 4512), (40, 4551), (41, 4554), (43, 4611), (44, 4647), (46, 4674), (48, 4710), (49, 4728), (50, 4734), (53, 4791), (57, 4866), (58, 4872), (61, 4929), (63, 4956), (65, 4986), (69, 5088), (71, 5151), (74, 5181), (76, 5310), (79, 5361),

Gene: Majesty_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Majesty_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: ManAs_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for ManAs_5:

(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Maneater_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for Maneater_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (10, 3852), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (37, 4416), (40, 4455), (42, 4482), (43, 4515), (46, 4578), (48, 4614), (49, 4632), (50, 4638), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (65, 4890), (67, 4899), (69, 4992), (71, 5055), (73, 5061), (74, 5085), (76, 5214), (77, 5217), (78, 5241), (79, 5265), (80, 5310),

Gene: Marichuy_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for Marichuy_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (10, 3969), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (42, 4599), (43, 4632), (44, 4668), (46, 4695), (49, 4749), (50, 4755), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (64, 4989), (65, 5007), (66, 5013), (69, 5109), (71, 5172), (74, 5202), (76, 5331), (78, 5358), (79, 5382),

Gene: MasterPitts_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for MasterPitts_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: MauiIvory_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for MauiIvory_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (41, 4575), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (49, 4749), (50, 4755), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (64, 4989), (65, 5007), (66, 5013), (69, 5109), (71, 5172), (74, 5202), (77, 5334),

Gene: McShie_5 Start: 3780, Stop: 5369, Start Num: 2
Candidate Starts for McShie_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (3, 3786), (4, 3792), (6, 3813), (9, 3855), (10, 3861), (11, 3885), (13, 3975), (15, 4074), (18, 4143), (19, 4149), (20, 4161), (24, 4224), (27, 4269), (29, 4326), (31, 4347), (34, 4386), (37, 4428), (40, 4467), (41, 4470), (43, 4527), (44, 4563), (46, 4590), (48, 4626), (49, 4644), (50, 4650), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: MelBee03_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for MelBee03_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37, 4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: Miaurora_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for Miaurora_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (42, 4599), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (50, 4755), (51, 4767), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (69, 5109), (71, 5172), (74, 5202), (77, 5334), (78, 5358), (79, 5382),

Gene: Minima_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Minima_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: MirimarMandM_5 Start: 3855, Stop: 5441, Start Num: 2
Candidate Starts for MirimarMandM_5:
(Start: 2 @3855 has 147 MA's), (6, 3888), (9, 3930), (10, 3936), (13, 4050), (15, 4149), (17, 4194), (18, 4218), (19, 4224), (20, 4236), (24, 4299), (27, 4350), (29, 4401), (31, 4422), (37, 4500), (40, 4539), (42, 4566), (43, 4599), (46, 4662), (48, 4698), (49, 4716), (50, 4722), (57, 4854), (58, 4860), (61, 4917), (63, 4944), (65, 4974), (67, 4983), (69, 5076), (71, 5139), (73, 5145), (74, 5169), (76, 5298), (77, 5301), (79, 5349), (80, 5394),

Gene: MrGreen_5 Start: 3801, Stop: 5384, Start Num: 2
Candidate Starts for MrGreen_5:
(1, 3747), (Start: 2 @3801 has 147 MA's), (6, 3831), (9, 3873), (10, 3879), (11, 3903), (13, 3993), (15, 4092), (18, 4161), (19, 4167), (20, 4179), (24, 4242), (27, 4287), (29, 4344), (31, 4365), (34, 4401), (37, 4443), (40, 4482), (41, 4485), (43, 4542), (44, 4578), (46, 4605), (48, 4641), (49, 4659), (50, 4665), (51, 4677), (53, 4722), (57, 4797), (58, 4803), (61, 4860), (63, 4887), (65, 4917), (66, 4923), (69, 5019), (71, 5082), (74, 5112), (79, 5292), (80, 5337), (82, 5346),

Gene: Myram_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Myram_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Naby_5 Start: 3530, Stop: 5104, Start Num: 2
Candidate Starts for Naby_5:
(Start: 2 @3530 has 147 MA's), (6, 3563), (15, 3824), (18, 3893), (19, 3899), (20, 3911), (21, 3917), (22, 3935), (24, 3974), (25, 4010), (30, 4073), (33, 4118), (37, 4163), (39, 4184), (40, 4202), (41, 4205), (43, 4262), (44, 4298), (46, 4325), (49, 4379), (56, 4484), (58, 4523), (61, 4580), (63, 4607), (65, 4637), (67, 4646), (69, 4739), (71, 4802), (72, 4805), (74, 4832), (76, 4961), (80, 5057), (82, 5066),

Gene: Namsahir_5 Start: 3843, Stop: 5432, Start Num: 2
Candidate Starts for Namsahir_5:
(Start: 2 @3843 has 147 MA's), (3, 3849), (4, 3855), (6, 3876), (7, 3888), (9, 3918), (10, 3924), (13, 4038), (15, 4137), (18, 4206), (19, 4212), (20, 4224), (24, 4287), (27, 4341), (29, 4392), (31, 4413), (34, 4449), (37, 4491), (40, 4530), (41, 4533), (43, 4590), (44, 4626), (46, 4653), (48, 4689), (49, 4707), (50,

4713), (57, 4845), (58, 4851), (61, 4908), (63, 4935), (64, 4947), (65, 4965), (66, 4971), (69, 5067), (71, 5130), (74, 5160), (77, 5292),

Gene: NeumannU_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for NeumannU_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Niffler_5 Start: 3861, Stop: 5447, Start Num: 2
Candidate Starts for Niffler_5:
(1, 3807), (Start: 2 @3861 has 147 MA's), (6, 3894), (9, 3936), (13, 4056), (15, 4155), (17, 4200), (18, 4224), (19, 4230), (20, 4242), (24, 4305), (27, 4356), (29, 4407), (31, 4428), (34, 4464), (37, 4506), (40, 4545), (42, 4572), (43, 4605), (44, 4641), (46, 4668), (48, 4704), (50, 4728), (51, 4740), (53, 4785), (57, 4860), (58, 4866), (61, 4923), (63, 4950), (65, 4980), (69, 5082), (71, 5145), (74, 5175), (77, 5307), (78, 5331), (79, 5355),

Gene: Nobel_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for Nobel_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (42, 4599), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (50, 4755), (51, 4767), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (69, 5109), (71, 5172), (74, 5202), (77, 5334), (78, 5358), (79, 5382),

Gene: Noelani_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for Noelani_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (34, 4374), (37, 4416), (40, 4455), (41, 4458), (43, 4515), (44, 4551), (46, 4578), (48, 4614), (49, 4632), (50, 4638), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (64, 4872), (65, 4890), (66, 4896), (69, 4992), (71, 5055), (74, 5085), (77, 5217),

Gene: Oaklynn_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Oaklynn_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (48, 4626), (49, 4644), (50, 4650), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277), (80, 5322),

Gene: Octopus_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Octopus_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (48, 4626), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: OdetoJoy_5 Start: 3864, Stop: 5453, Start Num: 2
Candidate Starts for OdetoJoy_5:

(1, 3810), (Start: 2 @3864 has 147 MA's), (3, 3870), (4, 3876), (6, 3897), (9, 3939), (10, 3945), (11, 3969), (13, 4059), (15, 4158), (18, 4227), (19, 4233), (20, 4245), (24, 4308), (27, 4362), (29, 4413), (31, 4434), (34, 4470), (37, 4512), (40, 4551), (41, 4554), (43, 4611), (44, 4647), (46, 4674), (48, 4710), (49, 4728), (50, 4734), (53, 4791), (57, 4866), (58, 4872), (61, 4929), (63, 4956), (65, 4986), (69, 5088), (71, 5151), (74, 5181), (76, 5310), (79, 5361),

Gene: Otwor_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Otwor_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Owens_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Owens_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: PaoPu_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for PaoPu_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Picconator_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Picconator_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Picnic_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Picnic_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: PoRanda_5 Start: 3855, Stop: 5441, Start Num: 2
Candidate Starts for PoRanda_5:
(Start: 2 @3855 has 147 MA's), (6, 3888), (9, 3930), (10, 3936), (13, 4050), (15, 4149), (17, 4194), (18, 4218), (19, 4224), (20, 4236), (24, 4299), (27, 4350), (29, 4401), (31, 4422), (37, 4500), (40, 4539), (42, 4566), (43, 4599), (46, 4662), (48, 4698), (49, 4716), (50, 4722), (57, 4854), (58, 4860), (61, 4917), (63, 4944), (65, 4974), (67, 4983), (69, 5076), (71, 5139), (73, 5145), (74, 5169), (76, 5298), (77, 5301), (79, 5349), (80, 5394),

Gene: Pondwater_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Pondwater_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Publix_5 Start: 3843, Stop: 5432, Start Num: 2
Candidate Starts for Publix_5:
(Start: 2 @3843 has 147 MA's), (3, 3849), (4, 3855), (6, 3876), (7, 3888), (9, 3918), (10, 3924), (13, 4038), (15, 4137), (18, 4206), (19, 4212), (20, 4224), (24, 4287), (27, 4341), (29, 4392), (31, 4413), (34, 4449), (37, 4491), (40, 4530), (41, 4533), (43, 4590), (44, 4626), (46, 4653), (48, 4689), (49, 4707), (50, 4713), (57, 4845), (58, 4851), (61, 4908), (63, 4935), (64, 4947), (65, 4965), (66, 4971), (69, 5067), (71, 5130), (74, 5160), (77, 5292),

Gene: Puddles3_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Puddles3_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: PuffyCat_5 Start: 3813, Stop: 5399, Start Num: 2
Candidate Starts for PuffyCat_5:
(1, 3759), (Start: 2 @3813 has 147 MA's), (6, 3846), (9, 3888), (13, 4008), (15, 4107), (17, 4152), (18, 4176), (19, 4182), (20, 4194), (24, 4257), (27, 4308), (29, 4359), (31, 4380), (34, 4416), (37, 4458), (40, 4497), (42, 4524), (43, 4557), (44, 4593), (46, 4620), (48, 4656), (50, 4680), (51, 4692), (53, 4737), (57, 4812), (58, 4818), (61, 4875), (63, 4902), (65, 4932), (69, 5034), (71, 5097), (74, 5127), (77, 5259), (78, 5283), (79, 5307),

Gene: Quaker_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for Quaker_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37, 4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: Rhogar_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Rhogar_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Rhysand_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Rhysand_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37,

4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Rira_5 Start: 3822, Stop: 5408, Start Num: 2
Candidate Starts for Rira_5:
(1, 3768), (Start: 2 @3822 has 147 MA's), (6, 3855), (9, 3897), (13, 4017), (15, 4116), (17, 4161), (18, 4185), (19, 4191), (20, 4203), (24, 4266), (27, 4317), (29, 4368), (31, 4389), (34, 4425), (37, 4467), (40, 4506), (41, 4509), (43, 4566), (44, 4602), (46, 4629), (48, 4665), (49, 4683), (50, 4689), (57, 4821), (58, 4827), (61, 4884), (63, 4911), (64, 4923), (65, 4941), (66, 4947), (69, 5043), (71, 5106), (74, 5136), (77, 5268),

Gene: RoscoWindex_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for RoscoWindex_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Sachet_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Sachet_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Sage7_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Sage7_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: SantasSleigh_5 Start: 3819, Stop: 5405, Start Num: 2
Candidate Starts for SantasSleigh_5:
(1, 3765), (Start: 2 @3819 has 147 MA's), (6, 3852), (9, 3894), (10, 3900), (13, 4014), (15, 4113), (17, 4158), (18, 4182), (19, 4188), (20, 4200), (24, 4263), (27, 4314), (29, 4365), (31, 4386), (34, 4422), (37, 4464), (40, 4503), (42, 4530), (43, 4563), (44, 4599), (46, 4626), (49, 4680), (50, 4686), (53, 4743), (57, 4818), (58, 4824), (61, 4881), (63, 4908), (64, 4920), (65, 4938), (66, 4944), (69, 5040), (71, 5103), (74, 5133), (76, 5262), (78, 5289), (79, 5313),

Gene: Sara_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for Sara_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Scamander_5 Start: 3795, Stop: 5381, Start Num: 2

Candidate Starts for Scamander_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Scrunchy_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Scrunchy_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: SeaWolves_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for SeaWolves_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Sippinontea_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for Sippinontea_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37, 4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: Slentz_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Slentz_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Slizam_5 Start: 3822, Stop: 5408, Start Num: 2
Candidate Starts for Slizam_5:
(1, 3768), (Start: 2 @3822 has 147 MA's), (6, 3855), (9, 3897), (13, 4017), (15, 4116), (17, 4161), (18, 4185), (19, 4191), (20, 4203), (24, 4266), (27, 4317), (29, 4368), (31, 4389), (34, 4425), (37, 4467), (40, 4506), (41, 4509), (43, 4566), (44, 4602), (46, 4629), (48, 4665), (49, 4683), (50, 4689), (57, 4821), (58, 4827), (61, 4884), (63, 4911), (64, 4923), (65, 4941), (66, 4947), (69, 5043), (71, 5106), (74, 5136), (77, 5268),

Gene: Snuffles_6 Start: 3992, Stop: 5578, Start Num: 2
Candidate Starts for Snuffles_6:
(1, 3938), (Start: 2 @3992 has 147 MA's), (6, 4025), (9, 4067), (13, 4187), (15, 4286), (17, 4331), (18, 4355), (19, 4361), (20, 4373), (24, 4436), (27, 4487), (29, 4538), (31, 4559), (37, 4637), (40, 4676), (42, 4703), (43, 4736), (44, 4772), (46, 4799), (48, 4835), (50, 4859), (51, 4871), (53, 4916), (57, 4991), (58, 4997), (61, 5054), (63, 5081), (65, 5111), (69, 5213), (71, 5276), (74, 5306), (76, 5435), (78, 5462),

Gene: Stem_5 Start: 3822, Stop: 5408, Start Num: 2
Candidate Starts for Stem_5:
(1, 3768), (Start: 2 @3822 has 147 MA's), (6, 3855), (9, 3897), (13, 4017), (15, 4116), (17, 4161), (18, 4185), (19, 4191), (20, 4203), (24, 4266), (27, 4317), (29, 4368), (31, 4389), (34, 4425), (37, 4467), (40, 4506), (41, 4509), (43, 4566), (44, 4602), (46, 4629), (48, 4665), (49, 4683), (50, 4689), (57, 4821), (58, 4827), (61, 4884), (63, 4911), (64, 4923), (65, 4941), (66, 4947), (69, 5043), (71, 5106), (74, 5136), (77, 5268),

Gene: TeddyBoy_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for TeddyBoy_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: TimoTea_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for TimoTea_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (10, 3852), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (37, 4416), (40, 4455), (42, 4482), (43, 4515), (46, 4578), (48, 4614), (49, 4632), (50, 4638), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (65, 4890), (67, 4899), (69, 4992), (71, 5055), (73, 5061), (74, 5085), (76, 5214), (77, 5217), (78, 5241), (79, 5265), (80, 5310),

Gene: TinyTruffula_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for TinyTruffula_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (42, 4599), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (50, 4755), (51, 4767), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (69, 5109), (71, 5172), (74, 5202), (77, 5334), (78, 5358), (79, 5382),

Gene: TlaliMex_5 Start: 3882, Stop: 5468, Start Num: 2
Candidate Starts for TlaliMex_5:
(1, 3828), (Start: 2 @3882 has 147 MA's), (6, 3915), (9, 3957), (13, 4077), (15, 4176), (17, 4221), (18, 4245), (19, 4251), (20, 4263), (24, 4326), (27, 4377), (29, 4428), (31, 4449), (37, 4527), (40, 4566), (42, 4593), (43, 4626), (46, 4689), (48, 4725), (49, 4743), (50, 4749), (57, 4881), (58, 4887), (61, 4944), (63, 4971), (65, 5001), (67, 5010), (69, 5103), (71, 5166), (73, 5172), (74, 5196), (76, 5325), (77, 5328), (79, 5376), (80, 5421),

Gene: TomBrady12_5 Start: 3822, Stop: 5408, Start Num: 2
Candidate Starts for TomBrady12_5:
(1, 3768), (Start: 2 @3822 has 147 MA's), (6, 3855), (9, 3897), (13, 4017), (15, 4116), (17, 4161), (18, 4185), (19, 4191), (20, 4203), (24, 4266), (27, 4317), (29, 4368), (31, 4389), (34, 4425), (37, 4467), (40, 4506), (41, 4509), (43, 4566), (44, 4602), (46, 4629), (48, 4665), (49, 4683), (50, 4689), (57, 4821), (58, 4827), (61, 4884), (63, 4911), (64, 4923), (65, 4941), (66, 4947), (69, 5043), (71, 5106), (74, 5136), (77, 5268),

Gene: Toxicola_5 Start: 3696, Stop: 5282, Start Num: 2
Candidate Starts for Toxicola_5:
(1, 3642), (Start: 2 @3696 has 147 MA's), (6, 3729), (9, 3771), (10, 3777), (13, 3891), (15, 3990), (17, 4035), (18, 4059), (19, 4065), (20, 4077), (24, 4140), (27, 4191), (29, 4242), (31, 4263), (37, 4341), (40,

4380), (41, 4383), (43, 4440), (44, 4476), (46, 4503), (49, 4557), (50, 4563), (53, 4620), (57, 4695), (58, 4701), (61, 4758), (63, 4785), (65, 4815), (66, 4821), (69, 4917), (71, 4980), (74, 5010), (76, 5139), (79, 5190),

Gene: Trackstar_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for Trackstar_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (42, 4599), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (50, 4755), (51, 4767), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (69, 5109), (71, 5172), (74, 5202), (77, 5334), (78, 5358), (79, 5382),

Gene: Trireme_5 Start: 3888, Stop: 5474, Start Num: 2
Candidate Starts for Trireme_5:
(1, 3834), (Start: 2 @3888 has 147 MA's), (6, 3921), (9, 3963), (13, 4083), (15, 4182), (17, 4227), (18, 4251), (19, 4257), (20, 4269), (24, 4332), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (42, 4599), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (50, 4755), (51, 4767), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (69, 5109), (71, 5172), (74, 5202), (77, 5334), (78, 5358), (79, 5382),

Gene: Tyrellus_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Tyrellus_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: Upsilon_5 Start: 3855, Stop: 5441, Start Num: 2
Candidate Starts for Upsilon_5:
(Start: 2 @3855 has 147 MA's), (6, 3888), (9, 3930), (10, 3936), (13, 4050), (15, 4149), (17, 4194), (18, 4218), (19, 4224), (20, 4236), (24, 4299), (27, 4350), (29, 4401), (31, 4422), (37, 4500), (40, 4539), (42, 4566), (43, 4599), (46, 4662), (48, 4698), (49, 4716), (50, 4722), (57, 4854), (58, 4860), (61, 4917), (63, 4944), (65, 4974), (67, 4983), (69, 5076), (71, 5139), (73, 5145), (74, 5169), (76, 5298), (77, 5301), (79, 5349), (80, 5394),

Gene: Vanisius_5 Start: 3795, Stop: 5381, Start Num: 2
Candidate Starts for Vanisius_5:
(1, 3741), (Start: 2 @3795 has 147 MA's), (6, 3828), (9, 3870), (10, 3876), (13, 3990), (15, 4089), (17, 4134), (18, 4158), (19, 4164), (20, 4176), (24, 4239), (27, 4290), (29, 4341), (31, 4362), (34, 4398), (37, 4440), (40, 4479), (42, 4506), (43, 4539), (44, 4575), (46, 4602), (49, 4656), (50, 4662), (53, 4719), (57, 4794), (58, 4800), (61, 4857), (63, 4884), (64, 4896), (65, 4914), (66, 4920), (69, 5016), (71, 5079), (74, 5109), (76, 5238), (78, 5265), (79, 5289),

Gene: VitulaEligans_5 Start: 3864, Stop: 5453, Start Num: 2
Candidate Starts for VitulaEligans_5:
(1, 3810), (Start: 2 @3864 has 147 MA's), (3, 3870), (4, 3876), (6, 3897), (9, 3939), (10, 3945), (11, 3969), (13, 4059), (15, 4158), (18, 4227), (19, 4233), (20, 4245), (24, 4308), (27, 4362), (29, 4413), (31, 4434), (34, 4470), (37, 4512), (40, 4551), (41, 4554), (43, 4611), (44, 4647), (46, 4674), (48, 4710), (49, 4728), (50, 4734), (53, 4791), (57, 4866), (58, 4872), (61, 4929), (63, 4956), (65, 4986), (69, 5088), (71, 5151), (74, 5181), (76, 5310), (79, 5361),

Gene: Witch_5 Start: 3784, Stop: 5370, Start Num: 2

Candidate Starts for Witch_5:
(1, 3730), (Start: 2 @3784 has 147 MA's), (6, 3817), (9, 3859), (10, 3865), (13, 3979), (15, 4078), (17, 4123), (18, 4147), (19, 4153), (20, 4165), (24, 4228), (27, 4279), (29, 4330), (31, 4351), (34, 4387), (37, 4429), (40, 4468), (42, 4495), (43, 4528), (44, 4564), (46, 4591), (49, 4645), (53, 4708), (57, 4783), (58, 4789), (59, 4804), (61, 4846), (63, 4873), (64, 4885), (65, 4903), (66, 4909), (69, 5005), (71, 5068), (74, 5098), (76, 5227), (78, 5254), (79, 5278),

Gene: Wolfpack_5 Start: 3780, Stop: 5363, Start Num: 2
Candidate Starts for Wolfpack_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3810), (9, 3852), (10, 3858), (11, 3882), (13, 3972), (15, 4071), (18, 4140), (19, 4146), (20, 4158), (24, 4221), (27, 4266), (29, 4323), (31, 4344), (34, 4380), (37, 4422), (40, 4461), (41, 4464), (43, 4521), (44, 4557), (46, 4584), (48, 4620), (49, 4638), (50, 4644), (51, 4656), (53, 4701), (57, 4776), (58, 4782), (61, 4839), (63, 4866), (65, 4896), (66, 4902), (69, 4998), (71, 5061), (74, 5091), (79, 5271), (80, 5316), (82, 5325),

Gene: Yami_5 Start: 3771, Stop: 5357, Start Num: 2
Candidate Starts for Yami_5:
(1, 3717), (Start: 2 @3771 has 147 MA's), (6, 3804), (9, 3846), (13, 3966), (15, 4065), (17, 4110), (18, 4134), (19, 4140), (20, 4152), (24, 4215), (27, 4266), (29, 4317), (31, 4338), (34, 4374), (37, 4416), (40, 4455), (42, 4482), (43, 4515), (44, 4551), (46, 4578), (48, 4614), (50, 4638), (51, 4650), (53, 4695), (57, 4770), (58, 4776), (61, 4833), (63, 4860), (65, 4890), (69, 4992), (71, 5055), (74, 5085), (77, 5217), (78, 5241), (79, 5265),

Gene: Yasuo_5 Start: 3780, Stop: 5366, Start Num: 2
Candidate Starts for Yasuo_5:
(1, 3726), (Start: 2 @3780 has 147 MA's), (6, 3813), (9, 3855), (10, 3861), (13, 3975), (15, 4074), (17, 4119), (18, 4143), (19, 4149), (20, 4161), (24, 4224), (27, 4275), (29, 4326), (31, 4347), (34, 4383), (37, 4425), (40, 4464), (42, 4491), (43, 4524), (44, 4560), (46, 4587), (49, 4641), (53, 4704), (57, 4779), (58, 4785), (61, 4842), (63, 4869), (64, 4881), (65, 4899), (66, 4905), (69, 5001), (71, 5064), (74, 5094), (76, 5223), (78, 5250), (79, 5274),

Gene: YertPhresh_5 Start: 3783, Stop: 5369, Start Num: 2
Candidate Starts for YertPhresh_5:
(1, 3729), (Start: 2 @3783 has 147 MA's), (6, 3816), (9, 3858), (10, 3864), (13, 3978), (15, 4077), (17, 4122), (18, 4146), (19, 4152), (20, 4164), (24, 4227), (27, 4278), (29, 4329), (31, 4350), (34, 4386), (37, 4428), (40, 4467), (42, 4494), (43, 4527), (44, 4563), (46, 4590), (49, 4644), (53, 4707), (57, 4782), (58, 4788), (61, 4845), (63, 4872), (64, 4884), (65, 4902), (66, 4908), (69, 5004), (71, 5067), (74, 5097), (76, 5226), (78, 5253), (79, 5277),

Gene: Yubaba_5 Start: 3784, Stop: 5370, Start Num: 2
Candidate Starts for Yubaba_5:
(1, 3730), (Start: 2 @3784 has 147 MA's), (6, 3817), (9, 3859), (10, 3865), (13, 3979), (15, 4078), (17, 4123), (18, 4147), (19, 4153), (20, 4165), (24, 4228), (27, 4279), (29, 4330), (31, 4351), (34, 4387), (37, 4429), (40, 4468), (42, 4495), (43, 4528), (44, 4564), (46, 4591), (49, 4645), (53, 4708), (57, 4783), (58, 4789), (59, 4804), (61, 4846), (63, 4873), (64, 4885), (65, 4903), (66, 4909), (69, 5005), (71, 5068), (74, 5098), (76, 5227), (78, 5254), (79, 5278),

Gene: Zahlia_5 Start: 3885, Stop: 5474, Start Num: 2
Candidate Starts for Zahlia_5:
(1, 3831), (Start: 2 @3885 has 147 MA's), (3, 3891), (4, 3897), (6, 3918), (9, 3960), (10, 3966), (13, 4080), (15, 4179), (18, 4248), (19, 4254), (20, 4266), (24, 4329), (27, 4383), (29, 4434), (31, 4455), (34, 4491), (37, 4533), (40, 4572), (41, 4575), (43, 4632), (44, 4668), (46, 4695), (48, 4731), (49, 4749), (50, 4755), (53, 4812), (57, 4887), (58, 4893), (61, 4950), (63, 4977), (65, 5007), (66, 5013), (69, 5109), (71,

5172), (74, 5202), (76, 5331), (79, 5382),