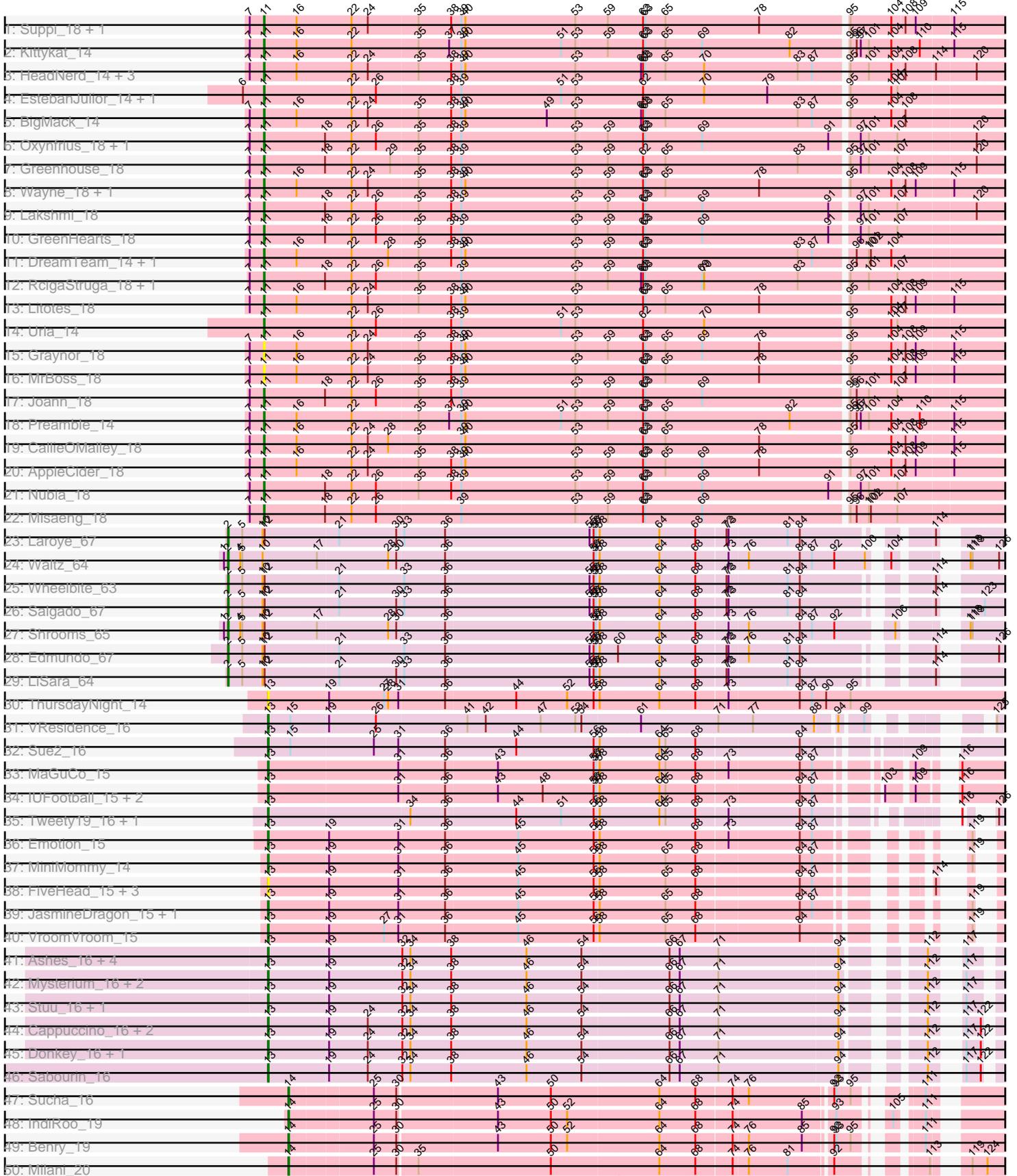# Zoomed Pham 291038

Zoomed Pham 291038

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 291038 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291038 has 92 members, 22 are drafts.

Phages represented in each track:
• Track 1 : Suppi_18, Canowicakte_18
• Track 2 : Kittykat_14
• Track 3 : HeadNerd_14, Moki_14, Bennie_14, Huckleberry_14
• Track 4 : EstebanJulior_14, MamaPearl_14
• Track 5 : BigMack_14
• Track 6 : Oxynfrius_18, Albanese_18
• Track 7 : Greenhouse_18
• Track 8 : Wayne_18, PartyCup_18
• Track 9 : Lakshmi_18
• Track 10 : GreenHearts_18
• Track 11 : DreamTeam_14, Gisselle_14
• Track 12 : RcigaStruga_18, Huntingdon_18
• Track 13 : Litotes_18
• Track 14 : Urla_14
• Track 15 : Graynor_18
• Track 16 : MrBoss_18
• Track 17 : Joann_18
• Track 18 : Preamble_14
• Track 19 : CallieOMalley_18
• Track 20 : AppleCider_18
• Track 21 : Nubia_18
• Track 22 : Misaeng_18
• Track 23 : Laroye_67
• Track 24 : Waltz_64
• Track 25 : Wheelbite_63
• Track 26 : Salgado_67
• Track 27 : Shrooms_65
• Track 28 : Edmundo_67
• Track 29 : LiSara_64
• Track 30 : ThursdayNight_14
• Track 31 : VResidence_16
• Track 32 : Sue2_16
• Track 33 : MaGuCo_15
• Track 34 : IUFootball_15, Liebe_15, Maureen_15
• Track 35 : Tweety19_16, Snek_16
• Track 36 : Emotion_15
• Track 37 : MiniMommy_14

- Track 38 : FiveHead_15, Origami_15, LadyAstra_15, JohnThicc_15
- Track 39 : JasmineDragon_15, ShakeItOph_15
- Track 40 : VroomVroom_15
- Track 41 : Ashes_16, RockScotty_16, SpecialK_16, Halsey_16, Moss_16
- Track 42 : Mysterium_16, Beaupre_16, Giorgio_16
- Track 43 : Stuu_16, Gumpizza_16
- Track 44 : Cappuccino_16, Kalimba_16, Sooty_16
- Track 45 : Donkey_16, Gambol_16
- Track 46 : Sabourin_16
- Track 47 : Sucha_16
- Track 48 : IndiRoo_19
- Track 49 : Benry_19
- Track 50 : Milani_20
- Track 51 : ChamoyPickle_18, Gerri43_18, ChipsNGuac_18, CardboardBox_18
- Track 52 : AnnabelLee_17
- Track 53 : TMaxx_17
- Track 54 : Makima_18
- Track 55 : Roberts_17, Neuvillette_17
- Track 56 : LastNadiia_20, Audell_20
- Track 57 : Ezurina_16
- Track 58 : Mireles_17
- Track 59 : Agamotto_19
- Track 60 : TripleC_20
- Track 61 : Studio_18

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

The start number called the most often in the published annotations is 11, it was called in 29 of the 70 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Albanese_18, AppleCider_18, Bennie_14, BigMack_14, CallieOMalley_18, Canowicakte_18, DreamTeam_14, EstebanJulior_14, Gisselle_14, Graynor_18, GreenHearts_18, Greenhouse_18, HeadNerd_14, Huckleberry_14, Huntingdon_18, Joann_18, Kittykat_14, Lakshmi_18, Litotes_18, MamaPearl_14, Misaeng_18, Moki_14, MrBoss_18, Nubia_18, Oxynfrius_18, PartyCup_18, Preamble_14, RcigaStruga_18, Suppi_18, Urla_14, Wayne_18,

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

Genes that do not have the "Most Annotated" start:
- Agamotto_19, AnnabelLee_17, Ashes_16, Audell_20, Beaupre_16, Benry_19, Cappuccino_16, CardboardBox_18, ChamoyPickle_18, ChipsNGuac_18, Donkey_16, Edmundo_67, Emotion_15, Ezurina_16, FiveHead_15, Gambol_16, Gerri43_18, Giorgio_16, Gumpizza_16, Halsey_16, IUFootball_15, IndiRoo_19, JasmineDragon_15, JohnThicc_15, Kalimba_16, LadyAstra_15, Laroye_67, LastNadiia_20, LiSara_64, Liebe_15, MaGuCo_15, Makima_18, Maureen_15, Milani_20, MiniMommy_14, Mireles_17, Moss_16, Mysterium_16, Neuvillette_17, Origami_15, Roberts_17, RockScotty_16, Sabourin_16, Salgado_67,

ShakeItOph_15, Shrooms_65, Snek_16, Sooty_16, SpecialK_16, Studio_18, Stuu_16, Sucha_16, Sue2_16, TMaxx_17, ThursdayNight_14, TripleC_20, Tweety19_16, VResidence_16, VroomVroom_15, Waltz_64, Wheelbite_63,

Summary by start number:

Start 2:
• Found in 7 of 92 (7.6%) of genes in pham
• Manual Annotations of this start: 7 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Edmundo_67 (AL), Laroye_67 (AL), LiSara_64 (AL), Salgado_67 (AL), Shrooms_65 (AL), Waltz_64 (AL), Wheelbite_63 (AL),

Start 3:
• Found in 2 of 92 (2.2%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mireles_17 (FR),

Start 8:
• Found in 8 of 92 (8.7%) of genes in pham
• No Manual Annotations of this start.
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Neuvillette_17 (FR), Roberts_17 (FR), Studio_18 (FR),

Start 9:
• Found in 16 of 92 (17.4%) of genes in pham
• Manual Annotations of this start: 2 of 70
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Agamotto_19 (FR), AnnabelLee_17 (FR), Audell_20 (FR), CardboardBox_18 (FR), ChamoyPickle_18 (FR), ChipsNGuac_18 (FR), Ezurina_16 (FR), Gerri43_18 (FR), LastNadiia_20 (FR), Makima_18 (FR), TMaxx_17 (FR), TripleC_20 (FR),

Start 11:
• Found in 31 of 92 (33.7%) of genes in pham
• Manual Annotations of this start: 29 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Albanese_18 (AK), AppleCider_18 (AK), Bennie_14 (AK), BigMack_14 (AK), CallieOMalley_18 (AK), Canowicakte_18 (AK), DreamTeam_14 (AK), EstebanJulior_14 (AK), Gisselle_14 (AK), Graynor_18 (AK), GreenHearts_18 (AK), Greenhouse_18 (AK), HeadNerd_14 (AK), Huckleberry_14 (AK), Huntingdon_18 (AK), Joann_18 (AK), Kittykat_14 (AK), Lakshmi_18 (AK), Litotes_18 (AK), MamaPearl_14 (AK), Misaeng_18 (AK), Moki_14 (AK), MrBoss_18 (AK), Nubia_18 (AK), Oxynfrius_18 (AK), PartyCup_18 (AK), Preamble_14 (AK), RcigaStruga_18 (AK), Suppi_18 (AK), Urla_14 (AK), Wayne_18 (AK),

Start 13:
• Found in 34 of 92 (37.0%) of genes in pham
• Manual Annotations of this start: 28 of 70
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Ashes_16 (AZ5), Beaupre_16 (AZ5), Cappuccino_16 (AZ5), Donkey_16 (AZ5), Emotion_15 (AZ4), FiveHead_15 (AZ4), Gambol_16 (AZ5), Giorgio_16 (AZ5), Gumpizza_16 (AZ5), Halsey_16 (AZ5), IUFootball_15 (AZ2), JasmineDragon_15 (AZ4), JohnThicc_15 (AZ4), Kalimba_16 (AZ5), LadyAstra_15 (AZ4), Liebe_15 (AZ2), MaGuCo_15 (AZ2), Maureen_15 (AZ2), MiniMommy_14 (AZ4), Moss_16 (AZ5), Mysterium_16 (AZ5), Origami_15 (AZ4), RockScotty_16 (AZ5), Sabourin_16 (AZ5), ShakeItOph_15 (AZ4), Snek_16 (AZ3), Sooty_16 (AZ5), SpecialK_16 (AZ5), Stuu_16 (AZ5), Sue2_16 (AZ1), ThursdayNight_14 (AZ), Tweety19_16 (AZ3), VResidence_16 (AZ1), VroomVroom_15 (AZ4),

Start 14:
• Found in 4 of 92 (4.3%) of genes in pham
• Manual Annotations of this start: 4 of 70
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Benry_19 (EJ), IndiRoo_19 (EJ), Milani_20 (EJ), Sucha_16 (EJ),

Summary by clusters:

There are 10 clusters represented in this pham: FR, AZ, EJ, AK, AL, AZ1, AZ2, AZ3, AZ4, AZ5,

Info for manual annotations of cluster AK:
•Start number 11 was manually annotated 29 times for cluster AK.

Info for manual annotations of cluster AL:
•Start number 2 was manually annotated 7 times for cluster AL.

Info for manual annotations of cluster AZ1:
•Start number 13 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 13 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 13 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 13 was manually annotated 5 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 13 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster EJ:
•Start number 14 was manually annotated 4 times for cluster EJ.

Info for manual annotations of cluster FR:
•Start number 9 was manually annotated 2 times for cluster FR.

Gene Information:

Gene: Agamotto_19 Start: 12614, Stop: 14902, Start Num: 9
Candidate Starts for Agamotto_19:
(3, 12578), (Start: 9 @12614 has 2 MA's), (23, 12755), (44, 12974), (45, 12977), (56, 13088), (57, 13091), (58, 13094), (68, 13232), (75, 13289), (84, 13379), (86, 13388), (89, 13409), (119, 13550), (120, 13556), (168, 13715), (180, 13757), (188, 13790), (198, 13814), (208, 13850), (215, 13871), (226, 13913), (228, 13919), (229, 13922), (248, 14003), (255, 14030), (259, 14045), (262, 14057), (269, 14081), (272, 14096), (274, 14102), (277, 14114), (278, 14120), (283, 14141), (284, 14144), (286, 14156), (289, 14174), (326, 14363), (338, 14408), (342, 14429), (343, 14432), (357, 14528), (361, 14549), (362, 14552), (367, 14585), (386, 14702), (389, 14726), (390, 14735), (396, 14753), (412, 14843), (415, 14864),

Gene: Albanese_18 Start: 12660, Stop: 15221, Start Num: 11
Candidate Starts for Albanese_18:
(7, 12639), (Start: 11 @12660 has 29 MA's), (18, 12750), (22, 12789), (26, 12825), (35, 12885), (38, 12933), (39, 12948), (53, 13116), (59, 13161), (62, 13212), (63, 13215), (69, 13299), (91, 13485), (97, 13521), (101, 13533), (107, 13575), (120, 13686), (148, 13884), (164, 13977), (168, 14001), (169, 14004), (191, 14082), (192, 14088), (200, 14115), (207, 14145), (225, 14208), (230, 14223), (232, 14232), (233, 14235), (235, 14244), (241, 14268), (243, 14280), (245, 14286), (248, 14301), (250, 14307), (251, 14310), (256, 14331), (260, 14346), (263, 14361), (269, 14379), (270, 14385), (274, 14400), (276, 14409), (278, 14418), (285, 14451), (286, 14454), (288, 14466), (289, 14472), (292, 14484), (308, 14550), (310, 14565), (315, 14595), (316, 14604), (339, 14715), (347, 14751), (350, 14772), (361, 14847), (362, 14850), (369, 14904), (375, 14943), (386, 15000), (389, 15024), (401, 15066), (403, 15093), (414, 15162),

Gene: AnnabelLee_17 Start: 9570, Stop: 11855, Start Num: 9
Candidate Starts for AnnabelLee_17:
(8, 9567), (Start: 9 @9570 has 2 MA's), (20, 9669), (36, 9828), (56, 10044), (68, 10188), (84, 10335), (91, 10377), (130, 10545), (143, 10566), (161, 10620), (194, 10761), (199, 10773), (208, 10806), (212, 10821), (228, 10875), (229, 10878), (235, 10902), (243, 10938), (246, 10947), (251, 10968), (253, 10977), (254, 10983), (256, 10989), (259, 11001), (260, 11004), (268, 11034), (270, 11043), (286, 11112), (291, 11139), (292, 11142), (308, 11208), (311, 11229), (315, 11253), (319, 11277), (325, 11316), (342, 11385), (344, 11394), (349, 11421), (361, 11505), (362, 11508), (375, 11601), (376, 11607), (386, 11658), (389, 11682), (390, 11691), (402, 11736), (421, 11850),

Gene: AppleCider_18 Start: 12612, Stop: 15167, Start Num: 11
Candidate Starts for AppleCider_18:
(7, 12591), (Start: 11 @12612 has 29 MA's), (16, 12660), (22, 12741), (24, 12765), (35, 12837), (38, 12885), (39, 12900), (40, 12906), (53, 13068), (59, 13113), (62, 13164), (63, 13167), (65, 13197), (69, 13251), (78, 13335), (95, 13458), (104, 13518), (108, 13536), (109, 13551), (115, 13602), (148, 13833), (162, 13902), (164, 13926), (167, 13944), (168, 13950), (183, 14004), (186, 14016), (192, 14037), (199, 14061), (222, 14148), (230, 14172), (231, 14178), (232, 14181), (235, 14193), (240, 14214), (241, 14217), (242, 14223), (243, 14229), (247, 14247), (248, 14250), (250, 14256), (256, 14280), (261, 14301), (263, 14310), (269, 14328), (274, 14349), (276, 14358), (278, 14367), (285, 14400), (286, 14403), (287, 14412), (288, 14415), (297, 14466), (339, 14664), (342, 14676), (346, 14697), (347, 14700), (361, 14796), (362, 14799), (369, 14853), (375, 14892), (386, 14949), (395, 14991), (403, 15039), (411, 15081), (414, 15111),

Gene: Ashes_16 Start: 10335, Stop: 12755, Start Num: 13
Candidate Starts for Ashes_16:
(Start: 13 @10335 has 28 MA's), (19, 10422), (32, 10527), (34, 10539), (38, 10599), (46, 10710), (54, 10791), (66, 10917), (67, 10932), (71, 10986), (94, 11160), (112, 11244), (117, 11265), (127, 11307),

(165, 11433), (168, 11454), (178, 11487), (193, 11544), (205, 11586), (208, 11601), (213, 11652), (220, 11688), (221, 11694), (244, 11796), (249, 11817), (258, 11859), (274, 11919), (275, 11925), (286, 11973), (308, 12069), (342, 12246), (345, 12258), (353, 12309), (365, 12390), (375, 12459), (383, 12495), (399, 12576), (401, 12591), (410, 12663), (413, 12687),

Gene: Audell_20 Start: 12894, Stop: 15182, Start Num: 9
Candidate Starts for Audell_20:
(Start: 9 @12894 has 2 MA's), (44, 13254), (45, 13257), (56, 13368), (57, 13371), (58, 13374), (68, 13512), (84, 13659), (119, 13830), (133, 13878), (172, 14010), (198, 14094), (202, 14106), (208, 14130), (219, 14172), (225, 14190), (229, 14202), (247, 14280), (248, 14283), (255, 14310), (260, 14328), (262, 14337), (269, 14361), (272, 14376), (274, 14382), (277, 14394), (278, 14400), (286, 14436), (292, 14466), (308, 14532), (338, 14688), (342, 14709), (343, 14712), (361, 14829), (362, 14832), (367, 14865), (386, 14982), (389, 15006), (412, 15123),

Gene: Beaupre_16 Start: 10336, Stop: 12756, Start Num: 13
Candidate Starts for Beaupre_16:
(Start: 13 @10336 has 28 MA's), (19, 10423), (32, 10528), (34, 10540), (38, 10600), (46, 10711), (54, 10792), (66, 10918), (67, 10933), (71, 10987), (94, 11161), (112, 11245), (117, 11266), (127, 11308), (165, 11434), (168, 11455), (178, 11488), (193, 11545), (205, 11587), (208, 11602), (213, 11653), (220, 11689), (221, 11695), (244, 11797), (249, 11818), (258, 11860), (274, 11920), (275, 11926), (286, 11974), (308, 12070), (338, 12226), (342, 12247), (345, 12259), (353, 12310), (375, 12460), (383, 12496), (399, 12577), (410, 12664), (413, 12688),

Gene: Bennie_14 Start: 9720, Stop: 12287, Start Num: 11
Candidate Starts for Bennie_14:
(7, 9699), (Start: 11 @9720 has 29 MA's), (16, 9768), (22, 9849), (24, 9873), (35, 9945), (38, 9993), (39, 10008), (40, 10014), (53, 10176), (61, 10269), (62, 10272), (63, 10275), (65, 10305), (70, 10362), (83, 10500), (87, 10521), (95, 10566), (101, 10593), (104, 10626), (108, 10644), (114, 10686), (120, 10743), (161, 11007), (164, 11034), (167, 11052), (168, 11058), (175, 11082), (181, 11103), (191, 11139), (198, 11166), (206, 11196), (207, 11202), (221, 11253), (231, 11286), (241, 11325), (242, 11331), (243, 11337), (246, 11346), (248, 11358), (250, 11364), (256, 11388), (261, 11409), (263, 11418), (274, 11457), (278, 11475), (285, 11508), (286, 11511), (288, 11523), (291, 11538), (299, 11589), (310, 11622), (312, 11640), (317, 11664), (324, 11706), (339, 11772), (342, 11784), (350, 11829), (361, 11904), (362, 11907), (369, 11961), (375, 12000), (381, 12027), (386, 12057), (388, 12069), (389, 12081), (390, 12090), (403, 12156), (411, 12198), (414, 12228),

Gene: Benry_19 Start: 11509, Stop: 13800, Start Num: 14
Candidate Starts for Benry_19:
(Start: 14 @11509 has 4 MA's), (25, 11626), (30, 11659), (43, 11800), (50, 11878), (52, 11902), (64, 12034), (68, 12085), (74, 12136), (76, 12157), (85, 12235), (92, 12271), (93, 12274), (95, 12295), (111, 12352), (134, 12436), (142, 12481), (144, 12484), (147, 12502), (151, 12520), (157, 12544), (195, 12706), (214, 12772), (222, 12805), (229, 12826), (237, 12859), (238, 12862), (282, 13030), (287, 13048), (292, 13069), (309, 13147), (315, 13180), (330, 13279), (343, 13315), (344, 13321), (349, 13348), (354, 13387), (361, 13432), (364, 13444), (365, 13456), (366, 13465), (367, 13468), (387, 13582), (398, 13633), (400, 13639), (401, 13648),

Gene: BigMack_14 Start: 9716, Stop: 12277, Start Num: 11
Candidate Starts for BigMack_14:
(7, 9695), (Start: 11 @9716 has 29 MA's), (16, 9764), (22, 9845), (24, 9869), (35, 9941), (38, 9989), (39, 10004), (40, 10010), (49, 10130), (53, 10172), (61, 10265), (62, 10268), (63, 10271), (65, 10301), (83, 10496), (87, 10517), (95, 10562), (104, 10622), (108, 10640), (141, 10892), (161, 11003), (164, 11030), (167, 11048), (168, 11054), (175, 11078), (178, 11087), (191, 11135), (198, 11162), (199, 11165), (206, 11192), (207, 11198), (210, 11210), (221, 11249), (226, 11264), (230, 11276), (231,

11282), (232, 11285), (234, 11294), (241, 11321), (242, 11327), (243, 11333), (246, 11342), (248, 11354), (250, 11360), (251, 11363), (263, 11414), (273, 11450), (274, 11453), (285, 11504), (286, 11507), (287, 11516), (288, 11519), (291, 11534), (310, 11618), (328, 11726), (339, 11768), (361, 11900), (362, 11903), (369, 11957), (375, 11996), (385, 12044), (386, 12053), (389, 12077), (403, 12146), (405, 12152), (414, 12218),

Gene: CallieOMalley_18 Start: 12612, Stop: 15167, Start Num: 11
Candidate Starts for CallieOMalley_18:
(7, 12591), (Start: 11 @12612 has 29 MA's), (16, 12660), (22, 12741), (24, 12765), (28, 12795), (35, 12837), (39, 12900), (40, 12906), (53, 13068), (62, 13164), (63, 13167), (65, 13197), (78, 13335), (95, 13458), (104, 13518), (108, 13536), (109, 13551), (115, 13602), (148, 13833), (162, 13902), (164, 13926), (167, 13944), (168, 13950), (183, 14004), (186, 14016), (192, 14037), (199, 14061), (222, 14148), (230, 14172), (231, 14178), (232, 14181), (235, 14193), (240, 14214), (241, 14217), (242, 14223), (243, 14229), (246, 14238), (247, 14247), (248, 14250), (250, 14256), (256, 14280), (261, 14301), (263, 14310), (269, 14328), (274, 14349), (276, 14358), (278, 14367), (285, 14400), (286, 14403), (287, 14412), (288, 14415), (297, 14466), (317, 14556), (339, 14664), (342, 14676), (346, 14697), (347, 14700), (361, 14796), (362, 14799), (369, 14853), (375, 14892), (386, 14949), (395, 14991), (403, 15039), (411, 15081), (414, 15111),

Gene: Canowicakte_18 Start: 12647, Stop: 15202, Start Num: 11
Candidate Starts for Canowicakte_18:
(7, 12626), (Start: 11 @12647 has 29 MA's), (16, 12695), (22, 12776), (24, 12800), (35, 12872), (38, 12920), (39, 12935), (40, 12941), (53, 13103), (59, 13148), (62, 13199), (63, 13202), (65, 13232), (78, 13370), (95, 13493), (104, 13553), (108, 13571), (109, 13586), (115, 13637), (148, 13868), (162, 13937), (164, 13961), (167, 13979), (168, 13985), (183, 14039), (186, 14051), (192, 14072), (199, 14096), (222, 14183), (230, 14207), (231, 14213), (232, 14216), (235, 14228), (240, 14249), (241, 14252), (242, 14258), (243, 14264), (246, 14273), (247, 14282), (248, 14285), (250, 14291), (256, 14315), (261, 14336), (263, 14345), (269, 14363), (274, 14384), (276, 14393), (278, 14402), (285, 14435), (286, 14438), (287, 14447), (288, 14450), (297, 14501), (317, 14591), (339, 14699), (342, 14711), (346, 14732), (347, 14735), (361, 14831), (362, 14834), (369, 14888), (375, 14927), (386, 14984), (395, 15026), (403, 15074), (411, 15116), (414, 15146),

Gene: Cappuccino_16 Start: 10243, Stop: 12663, Start Num: 13
Candidate Starts for Cappuccino_16:
(Start: 13 @10243 has 28 MA's), (19, 10330), (24, 10387), (32, 10435), (34, 10447), (38, 10507), (46, 10618), (54, 10699), (66, 10825), (67, 10840), (71, 10894), (94, 11068), (112, 11152), (117, 11173), (122, 11194), (127, 11215), (149, 11266), (165, 11341), (168, 11362), (178, 11395), (193, 11452), (205, 11494), (208, 11509), (213, 11560), (220, 11596), (244, 11704), (249, 11725), (258, 11767), (261, 11779), (275, 11833), (286, 11881), (308, 11977), (338, 12133), (342, 12154), (345, 12166), (353, 12217), (375, 12367), (383, 12403), (388, 12436), (413, 12595),

Gene: CardboardBox_18 Start: 9570, Stop: 11855, Start Num: 9
Candidate Starts for CardboardBox_18:
(8, 9567), (Start: 9 @9570 has 2 MA's), (20, 9669), (36, 9828), (56, 10044), (68, 10188), (80, 10299), (84, 10335), (91, 10377), (121, 10515), (130, 10545), (131, 10548), (143, 10566), (158, 10608), (174, 10692), (181, 10716), (197, 10764), (208, 10806), (209, 10812), (221, 10854), (227, 10872), (238, 10914), (241, 10926), (246, 10947), (251, 10968), (253, 10977), (254, 10983), (259, 11001), (260, 11004), (268, 11034), (270, 11043), (286, 11112), (291, 11139), (292, 11142), (308, 11208), (311, 11229), (315, 11253), (319, 11277), (325, 11316), (342, 11385), (344, 11394), (349, 11421), (361, 11505), (362, 11508), (375, 11601), (376, 11607), (386, 11658), (389, 11682), (390, 11691), (402, 11736), (421, 11850),

Gene: ChamoyPickle_18 Start: 9570, Stop: 11855, Start Num: 9

Candidate Starts for ChamoyPickle_18:
(8, 9567), (Start: 9 @9570 has 2 MA's), (20, 9669), (36, 9828), (56, 10044), (68, 10188), (80, 10299), (84, 10335), (91, 10377), (121, 10515), (130, 10545), (131, 10548), (143, 10566), (158, 10608), (174, 10692), (181, 10716), (197, 10764), (208, 10806), (209, 10812), (221, 10854), (227, 10872), (238, 10914), (241, 10926), (246, 10947), (251, 10968), (253, 10977), (254, 10983), (259, 11001), (260, 11004), (268, 11034), (270, 11043), (286, 11112), (291, 11139), (292, 11142), (308, 11208), (311, 11229), (315, 11253), (319, 11277), (325, 11316), (342, 11385), (344, 11394), (349, 11421), (361, 11505), (362, 11508), (375, 11601), (376, 11607), (386, 11658), (389, 11682), (390, 11691), (402, 11736), (421, 11850),

Gene: ChipsNGuac_18 Start: 9570, Stop: 11855, Start Num: 9
Candidate Starts for ChipsNGuac_18:
(8, 9567), (Start: 9 @9570 has 2 MA's), (20, 9669), (36, 9828), (56, 10044), (68, 10188), (80, 10299), (84, 10335), (91, 10377), (121, 10515), (130, 10545), (131, 10548), (143, 10566), (158, 10608), (174, 10692), (181, 10716), (197, 10764), (208, 10806), (209, 10812), (221, 10854), (227, 10872), (238, 10914), (241, 10926), (246, 10947), (251, 10968), (253, 10977), (254, 10983), (259, 11001), (260, 11004), (268, 11034), (270, 11043), (286, 11112), (291, 11139), (292, 11142), (308, 11208), (311, 11229), (315, 11253), (319, 11277), (325, 11316), (342, 11385), (344, 11394), (349, 11421), (361, 11505), (362, 11508), (375, 11601), (376, 11607), (386, 11658), (389, 11682), (390, 11691), (402, 11736), (421, 11850),

Gene: Donkey_16 Start: 10243, Stop: 12663, Start Num: 13
Candidate Starts for Donkey_16:
(Start: 13 @10243 has 28 MA's), (19, 10330), (24, 10387), (32, 10435), (34, 10447), (38, 10507), (46, 10618), (54, 10699), (66, 10825), (67, 10840), (71, 10894), (94, 11068), (112, 11152), (117, 11173), (122, 11194), (127, 11215), (149, 11266), (165, 11341), (168, 11362), (178, 11395), (193, 11452), (205, 11494), (208, 11509), (213, 11560), (220, 11596), (244, 11704), (249, 11725), (258, 11767), (261, 11779), (275, 11833), (286, 11881), (308, 11977), (338, 12133), (342, 12154), (345, 12166), (353, 12217), (375, 12367), (383, 12403), (399, 12484), (413, 12595),

Gene: DreamTeam_14 Start: 9784, Stop: 12330, Start Num: 11
Candidate Starts for DreamTeam_14:
(7, 9763), (Start: 11 @9784 has 29 MA's), (16, 9832), (22, 9913), (28, 9967), (35, 10009), (38, 10057), (39, 10072), (40, 10078), (53, 10240), (59, 10285), (62, 10336), (63, 10339), (83, 10564), (87, 10585), (96, 10639), (101, 10657), (102, 10660), (104, 10690), (154, 11026), (163, 11080), (164, 11086), (167, 11104), (168, 11110), (181, 11155), (189, 11188), (191, 11191), (203, 11239), (205, 11242), (207, 11254), (209, 11263), (222, 11308), (225, 11317), (231, 11338), (234, 11350), (235, 11353), (241, 11377), (242, 11383), (243, 11389), (248, 11410), (250, 11416), (255, 11437), (261, 11461), (263, 11470), (269, 11488), (274, 11509), (275, 11515), (285, 11560), (286, 11563), (287, 11572), (288, 11575), (310, 11674), (311, 11680), (320, 11734), (339, 11824), (361, 11956), (362, 11959), (369, 12013), (375, 12052), (378, 12070), (385, 12100), (386, 12109), (395, 12151), (414, 12271),

Gene: Edmundo_67 Start: 37140, Stop: 40157, Start Num: 2
Candidate Starts for Edmundo_67:
(Start: 2 @37140 has 7 MA's), (5, 37161), (10, 37191), (12, 37194), (21, 37299), (33, 37392), (36, 37452), (55, 37662), (56, 37668), (57, 37671), (58, 37674), (60, 37701), (64, 37761), (68, 37812), (72, 37854), (73, 37857), (76, 37884), (81, 37941), (84, 37959), (114, 38109), (126, 38169), (139, 38202), (140, 38211), (153, 38277), (160, 38301), (179, 38397), (192, 38445), (193, 38448), (196, 38460), (201, 38481), (204, 38493), (218, 38544), (241, 38637), (243, 38652), (262, 38727), (271, 38760), (274, 38772), (276, 38781), (283, 38811), (286, 38826), (287, 38835), (290, 38850), (299, 38904), (311, 38943), (331, 39069), (362, 39219), (365, 39240), (370, 39273), (371, 39276), (374, 39294), (377, 39318), (380, 39330), (384, 39351), (407, 39486), (409, 39507), (412, 39528), (418, 39570), (419, 39573), (424, 39681), (425, 39705), (426, 39714), (428, 39768), (429, 39777), (431, 39840),

(433, 39870), (434, 39879), (436, 39978), (437, 39984), (439, 40014), (440, 40053), (442, 40140),

Gene: Emotion_15 Start: 9044, Stop: 11284, Start Num: 13
Candidate Starts for Emotion_15:
(Start: 13 @9044 has 28 MA's), (19, 9131), (31, 9233), (36, 9299), (45, 9404), (56, 9515), (58, 9521), (68, 9659), (73, 9704), (84, 9806), (87, 9824), (119, 9938), (162, 10034), (179, 10121), (190, 10160), (199, 10184), (206, 10208), (208, 10217), (214, 10235), (220, 10262), (235, 10313), (238, 10325), (252, 10382), (265, 10436), (276, 10478), (307, 10607), (315, 10664), (342, 10796), (343, 10799), (361, 10916), (375, 11012), (376, 11018), (383, 11048),

Gene: EstebanJulior_14 Start: 9752, Stop: 12301, Start Num: 11
Candidate Starts for EstebanJulior_14:
(6, 9722), (Start: 11 @9752 has 29 MA's), (22, 9881), (26, 9917), (38, 10025), (39, 10040), (51, 10187), (53, 10208), (62, 10304), (70, 10394), (79, 10487), (95, 10598), (104, 10658), (107, 10667), (146, 10940), (154, 10994), (161, 11027), (163, 11048), (164, 11054), (167, 11072), (191, 11159), (207, 11222), (222, 11276), (225, 11285), (231, 11306), (234, 11318), (235, 11321), (241, 11345), (242, 11351), (243, 11357), (246, 11366), (248, 11378), (250, 11384), (255, 11405), (263, 11438), (268, 11453), (269, 11456), (274, 11477), (275, 11483), (278, 11495), (285, 11528), (286, 11531), (287, 11540), (288, 11543), (291, 11558), (310, 11642), (316, 11681), (339, 11792), (342, 11804), (350, 11849), (361, 11924), (362, 11927), (369, 11981), (385, 12068), (386, 12077), (389, 12101), (391, 12113), (403, 12170), (405, 12176), (414, 12242), (422, 12284),

Gene: Ezurina_16 Start: 9139, Stop: 11424, Start Num: 9
Candidate Starts for Ezurina_16:
(Start: 9 @9139 has 2 MA's), (25, 9295), (36, 9397), (56, 9613), (57, 9616), (68, 9757), (84, 9904), (95, 9967), (121, 10084), (131, 10117), (143, 10135), (173, 10258), (197, 10333), (208, 10375), (209, 10381), (221, 10423), (225, 10435), (226, 10438), (227, 10441), (241, 10495), (246, 10516), (247, 10525), (248, 10528), (251, 10537), (253, 10546), (254, 10552), (259, 10570), (260, 10573), (262, 10582), (268, 10603), (270, 10612), (273, 10624), (286, 10681), (291, 10708), (292, 10711), (308, 10777), (316, 10831), (325, 10885), (326, 10888), (328, 10900), (343, 10957), (344, 10963), (349, 10990), (356, 11041), (361, 11074), (362, 11077), (375, 11170), (376, 11176), (386, 11227), (389, 11251), (390, 11260), (391, 11263), (421, 11419),

Gene: FiveHead_15 Start: 8974, Stop: 11217, Start Num: 13
Candidate Starts for FiveHead_15:
(Start: 13 @8974 has 28 MA's), (19, 9061), (31, 9163), (36, 9229), (45, 9334), (56, 9445), (58, 9451), (65, 9547), (68, 9589), (84, 9736), (87, 9754), (114, 9856), (168, 10012), (190, 10090), (206, 10138), (208, 10147), (214, 10165), (225, 10207), (228, 10216), (235, 10243), (242, 10273), (250, 10306), (276, 10408), (278, 10417), (281, 10429), (285, 10450), (286, 10453), (292, 10483), (314, 10591), (361, 10846), (364, 10858), (375, 10942), (376, 10948), (383, 10978),

Gene: Gambol_16 Start: 10243, Stop: 12663, Start Num: 13
Candidate Starts for Gambol_16:
(Start: 13 @10243 has 28 MA's), (19, 10330), (24, 10387), (32, 10435), (34, 10447), (38, 10507), (46, 10618), (54, 10699), (66, 10825), (67, 10840), (71, 10894), (94, 11068), (112, 11152), (117, 11173), (122, 11194), (127, 11215), (149, 11266), (165, 11341), (168, 11362), (178, 11395), (193, 11452), (205, 11494), (208, 11509), (213, 11560), (220, 11596), (244, 11704), (249, 11725), (258, 11767), (261, 11779), (275, 11833), (286, 11881), (308, 11977), (338, 12133), (342, 12154), (345, 12166), (353, 12217), (375, 12367), (383, 12403), (399, 12484), (413, 12595),

Gene: Gerri43_18 Start: 9570, Stop: 11855, Start Num: 9
Candidate Starts for Gerri43_18:

(8, 9567), (Start: 9 @9570 has 2 MA's), (20, 9669), (36, 9828), (56, 10044), (68, 10188), (80, 10299), (84, 10335), (91, 10377), (121, 10515), (130, 10545), (131, 10548), (143, 10566), (158, 10608), (174, 10692), (181, 10716), (197, 10764), (208, 10806), (209, 10812), (221, 10854), (227, 10872), (238, 10914), (241, 10926), (246, 10947), (251, 10968), (253, 10977), (254, 10983), (259, 11001), (260, 11004), (268, 11034), (270, 11043), (286, 11112), (291, 11139), (292, 11142), (308, 11208), (311, 11229), (315, 11253), (319, 11277), (325, 11316), (342, 11385), (344, 11394), (349, 11421), (361, 11505), (362, 11508), (375, 11601), (376, 11607), (386, 11658), (389, 11682), (390, 11691), (402, 11736), (421, 11850),

Gene: Giorgio_16 Start: 10343, Stop: 12763, Start Num: 13
Candidate Starts for Giorgio_16:
(Start: 13 @10343 has 28 MA's), (19, 10430), (32, 10535), (34, 10547), (38, 10607), (46, 10718), (54, 10799), (66, 10925), (67, 10940), (71, 10994), (94, 11168), (112, 11252), (117, 11273), (127, 11315), (165, 11441), (168, 11462), (178, 11495), (193, 11552), (205, 11594), (208, 11609), (213, 11660), (220, 11696), (221, 11702), (244, 11804), (249, 11825), (258, 11867), (274, 11927), (275, 11933), (286, 11981), (308, 12077), (338, 12233), (342, 12254), (345, 12266), (353, 12317), (375, 12467), (383, 12503), (399, 12584), (410, 12671), (413, 12695),

Gene: Gisselle_14 Start: 9784, Stop: 12330, Start Num: 11
Candidate Starts for Gisselle_14:
(7, 9763), (Start: 11 @9784 has 29 MA's), (16, 9832), (22, 9913), (28, 9967), (35, 10009), (38, 10057), (39, 10072), (40, 10078), (53, 10240), (59, 10285), (62, 10336), (63, 10339), (83, 10564), (87, 10585), (96, 10639), (101, 10657), (102, 10660), (104, 10690), (154, 11026), (163, 11080), (164, 11086), (167, 11104), (168, 11110), (181, 11155), (189, 11188), (191, 11191), (203, 11239), (205, 11242), (207, 11254), (209, 11263), (222, 11308), (225, 11317), (231, 11338), (234, 11350), (235, 11353), (241, 11377), (242, 11383), (243, 11389), (248, 11410), (250, 11416), (255, 11437), (261, 11461), (263, 11470), (269, 11488), (274, 11509), (275, 11515), (285, 11560), (286, 11563), (287, 11572), (288, 11575), (310, 11674), (311, 11680), (320, 11734), (339, 11824), (361, 11956), (362, 11959), (369, 12013), (375, 12052), (378, 12070), (385, 12100), (386, 12109), (395, 12151), (414, 12271),

Gene: Graynor_18 Start: 12633, Stop: 15188, Start Num: 11
Candidate Starts for Graynor_18:
(7, 12612), (Start: 11 @12633 has 29 MA's), (16, 12681), (22, 12762), (24, 12786), (35, 12858), (38, 12906), (39, 12921), (40, 12927), (53, 13089), (59, 13134), (62, 13185), (63, 13188), (65, 13218), (69, 13272), (78, 13356), (95, 13479), (104, 13539), (108, 13557), (109, 13572), (115, 13623), (148, 13854), (152, 13878), (164, 13947), (167, 13965), (168, 13971), (183, 14025), (186, 14037), (192, 14058), (199, 14082), (222, 14169), (230, 14193), (231, 14199), (232, 14202), (235, 14214), (240, 14235), (241, 14238), (242, 14244), (243, 14250), (247, 14268), (248, 14271), (250, 14277), (256, 14301), (261, 14322), (263, 14331), (269, 14349), (274, 14370), (276, 14379), (278, 14388), (285, 14421), (286, 14424), (287, 14433), (288, 14436), (297, 14487), (317, 14577), (339, 14685), (342, 14697), (346, 14718), (347, 14721), (361, 14817), (362, 14820), (369, 14874), (375, 14913), (386, 14970), (395, 15012), (403, 15060), (411, 15102), (414, 15132),

Gene: GreenHearts_18 Start: 12707, Stop: 15268, Start Num: 11
Candidate Starts for GreenHearts_18:
(7, 12686), (Start: 11 @12707 has 29 MA's), (18, 12797), (22, 12836), (26, 12872), (35, 12932), (38, 12980), (39, 12995), (53, 13163), (59, 13208), (62, 13259), (63, 13262), (69, 13346), (91, 13532), (97, 13568), (101, 13580), (107, 13622), (148, 13931), (164, 14024), (167, 14042), (168, 14048), (191, 14129), (192, 14135), (200, 14162), (207, 14192), (225, 14255), (230, 14270), (232, 14279), (233, 14282), (235, 14291), (241, 14315), (243, 14327), (245, 14333), (248, 14348), (250, 14354), (251, 14357), (256, 14378), (260, 14393), (263, 14408), (269, 14426), (270, 14432), (274, 14447), (276, 14456), (278, 14465), (285, 14498), (286, 14501), (288, 14513), (289, 14519), (292, 14531), (308, 14597), (310, 14612), (315, 14642), (316, 14651), (339, 14762), (347, 14798), (350, 14819), (361,

14894), (362, 14897), (369, 14951), (375, 14990), (386, 15047), (389, 15071), (401, 15113), (403, 15140), (414, 15209),

Gene: Greenhouse_18 Start: 12631, Stop: 15192, Start Num: 11
Candidate Starts for Greenhouse_18:
(7, 12610), (Start: 11 @12631 has 29 MA's), (18, 12721), (22, 12760), (29, 12817), (35, 12856), (38, 12904), (39, 12919), (53, 13087), (59, 13132), (62, 13183), (65, 13216), (83, 13411), (95, 13477), (97, 13492), (101, 13504), (107, 13546), (120, 13657), (135, 13744), (148, 13855), (154, 13888), (164, 13948), (168, 13972), (169, 13975), (191, 14053), (192, 14059), (193, 14062), (200, 14086), (207, 14116), (225, 14179), (230, 14194), (231, 14200), (232, 14203), (235, 14215), (241, 14239), (243, 14251), (245, 14257), (248, 14272), (250, 14278), (251, 14281), (256, 14302), (260, 14317), (263, 14332), (269, 14350), (270, 14356), (274, 14371), (276, 14380), (285, 14422), (286, 14425), (288, 14437), (289, 14443), (292, 14455), (299, 14503), (308, 14521), (310, 14536), (315, 14566), (316, 14575), (339, 14686), (347, 14722), (350, 14743), (361, 14818), (362, 14821), (369, 14875), (375, 14914), (386, 14971), (389, 14995), (401, 15037), (403, 15064), (414, 15133),

Gene: Gumpizza_16 Start: 10336, Stop: 12756, Start Num: 13
Candidate Starts for Gumpizza_16:
(Start: 13 @10336 has 28 MA's), (19, 10423), (32, 10528), (34, 10540), (38, 10600), (46, 10711), (54, 10792), (66, 10918), (67, 10933), (71, 10987), (94, 11161), (112, 11245), (117, 11266), (127, 11308), (165, 11434), (168, 11455), (178, 11488), (193, 11545), (205, 11587), (208, 11602), (213, 11653), (220, 11689), (221, 11695), (244, 11797), (249, 11818), (258, 11860), (274, 11920), (275, 11926), (286, 11974), (308, 12070), (338, 12226), (342, 12247), (345, 12259), (353, 12310), (375, 12460), (383, 12496), (410, 12664), (413, 12688),

Gene: Halsey_16 Start: 10335, Stop: 12755, Start Num: 13
Candidate Starts for Halsey_16:
(Start: 13 @10335 has 28 MA's), (19, 10422), (32, 10527), (34, 10539), (38, 10599), (46, 10710), (54, 10791), (66, 10917), (67, 10932), (71, 10986), (94, 11160), (112, 11244), (117, 11265), (127, 11307), (165, 11433), (168, 11454), (178, 11487), (193, 11544), (205, 11586), (208, 11601), (213, 11652), (220, 11688), (221, 11694), (244, 11796), (249, 11817), (258, 11859), (274, 11919), (275, 11925), (286, 11973), (308, 12069), (342, 12246), (345, 12258), (353, 12309), (365, 12390), (375, 12459), (383, 12495), (399, 12576), (401, 12591), (410, 12663), (413, 12687),

Gene: HeadNerd_14 Start: 9720, Stop: 12287, Start Num: 11
Candidate Starts for HeadNerd_14:
(7, 9699), (Start: 11 @9720 has 29 MA's), (16, 9768), (22, 9849), (24, 9873), (35, 9945), (38, 9993), (39, 10008), (40, 10014), (53, 10176), (61, 10269), (62, 10272), (63, 10275), (65, 10305), (70, 10362), (83, 10500), (87, 10521), (95, 10566), (101, 10593), (104, 10626), (108, 10644), (114, 10686), (120, 10743), (161, 11007), (164, 11034), (167, 11052), (168, 11058), (175, 11082), (181, 11103), (191, 11139), (198, 11166), (206, 11196), (207, 11202), (221, 11253), (231, 11286), (241, 11325), (242, 11331), (243, 11337), (246, 11346), (248, 11358), (250, 11364), (256, 11388), (261, 11409), (263, 11418), (274, 11457), (278, 11475), (285, 11508), (286, 11511), (288, 11523), (291, 11538), (299, 11589), (310, 11622), (312, 11640), (317, 11664), (324, 11706), (339, 11772), (342, 11784), (350, 11829), (361, 11904), (362, 11907), (369, 11961), (375, 12000), (381, 12027), (386, 12057), (388, 12069), (389, 12081), (390, 12090), (403, 12156), (411, 12198), (414, 12228),

Gene: Huckleberry_14 Start: 9720, Stop: 12287, Start Num: 11
Candidate Starts for Huckleberry_14:
(7, 9699), (Start: 11 @9720 has 29 MA's), (16, 9768), (22, 9849), (24, 9873), (35, 9945), (38, 9993), (39, 10008), (40, 10014), (53, 10176), (61, 10269), (62, 10272), (63, 10275), (65, 10305), (70, 10362), (83, 10500), (87, 10521), (95, 10566), (101, 10593), (104, 10626), (108, 10644), (114, 10686), (120, 10743), (161, 11007), (164, 11034), (167, 11052), (168, 11058), (175, 11082), (181, 11103), (191,

11139), (198, 11166), (206, 11196), (207, 11202), (221, 11253), (231, 11286), (241, 11325), (242, 11331), (243, 11337), (246, 11346), (248, 11358), (250, 11364), (256, 11388), (261, 11409), (263, 11418), (274, 11457), (278, 11475), (285, 11508), (286, 11511), (288, 11523), (291, 11538), (299, 11589), (310, 11622), (312, 11640), (317, 11664), (324, 11706), (339, 11772), (342, 11784), (350, 11829), (361, 11904), (362, 11907), (369, 11961), (375, 12000), (381, 12027), (386, 12057), (388, 12069), (389, 12081), (390, 12090), (403, 12156), (411, 12198), (414, 12228),

Gene: Huntingdon_18 Start: 12617, Stop: 15178, Start Num: 11
Candidate Starts for Huntingdon_18:
(7, 12596), (Start: 11 @12617 has 29 MA's), (18, 12707), (22, 12746), (26, 12782), (35, 12842), (39, 12905), (53, 13073), (59, 13118), (61, 13166), (62, 13169), (63, 13172), (69, 13256), (70, 13259), (83, 13397), (95, 13463), (101, 13490), (107, 13532), (148, 13841), (154, 13874), (164, 13934), (168, 13958), (191, 14039), (192, 14045), (193, 14048), (200, 14072), (207, 14102), (214, 14123), (227, 14171), (231, 14186), (235, 14201), (241, 14225), (243, 14237), (245, 14243), (248, 14258), (250, 14264), (260, 14303), (261, 14309), (263, 14318), (269, 14336), (270, 14342), (273, 14354), (274, 14357), (276, 14366), (280, 14384), (285, 14408), (286, 14411), (288, 14423), (292, 14441), (308, 14507), (310, 14522), (315, 14552), (316, 14561), (327, 14621), (339, 14672), (347, 14708), (361, 14804), (362, 14807), (369, 14861), (375, 14900), (381, 14927), (386, 14957), (389, 14981), (401, 15023), (403, 15050), (414, 15119),

Gene: IUFootball_15 Start: 9206, Stop: 11569, Start Num: 13
Candidate Starts for IUFootball_15:
(Start: 13 @9206 has 28 MA's), (31, 9395), (36, 9461), (43, 9536), (48, 9602), (56, 9677), (57, 9680), (58, 9683), (64, 9770), (65, 9779), (68, 9821), (84, 9968), (87, 9986), (103, 10061), (109, 10094), (116, 10127), (150, 10268), (183, 10391), (185, 10400), (199, 10439), (205, 10457), (208, 10472), (225, 10532), (227, 10538), (229, 10544), (232, 10556), (233, 10559), (246, 10613), (248, 10625), (252, 10637), (255, 10652), (274, 10724), (278, 10742), (280, 10751), (284, 10766), (286, 10778), (289, 10796), (292, 10808), (338, 11030), (361, 11171), (362, 11174), (367, 11207), (368, 11222), (369, 11228), (375, 11267), (386, 11324), (392, 11366), (402, 11414),

Gene: IndiRoo_19 Start: 11519, Stop: 13810, Start Num: 14
Candidate Starts for IndiRoo_19:
(Start: 14 @11519 has 4 MA's), (25, 11636), (30, 11669), (43, 11810), (50, 11888), (52, 11912), (64, 12044), (68, 12095), (74, 12146), (85, 12245), (93, 12284), (105, 12332), (111, 12362), (134, 12446), (144, 12494), (147, 12512), (160, 12563), (170, 12629), (195, 12716), (214, 12782), (218, 12797), (222, 12815), (229, 12836), (237, 12869), (287, 13058), (292, 13079), (294, 13091), (295, 13100), (309, 13157), (315, 13190), (318, 13211), (330, 13289), (338, 13301), (344, 13331), (349, 13358), (361, 13442), (364, 13454), (366, 13475), (367, 13478), (387, 13592), (398, 13643), (401, 13658),

Gene: JasmineDragon_15 Start: 8971, Stop: 11214, Start Num: 13
Candidate Starts for JasmineDragon_15:
(Start: 13 @8971 has 28 MA's), (19, 9058), (31, 9160), (36, 9226), (45, 9331), (56, 9442), (58, 9448), (65, 9544), (68, 9586), (84, 9733), (87, 9751), (119, 9868), (133, 9895), (149, 9928), (162, 9964), (168, 10012), (179, 10051), (190, 10090), (206, 10138), (208, 10147), (210, 10156), (214, 10165), (225, 10207), (235, 10243), (238, 10255), (248, 10300), (250, 10306), (256, 10330), (265, 10366), (270, 10384), (276, 10408), (278, 10417), (281, 10429), (285, 10450), (286, 10453), (292, 10483), (343, 10729), (361, 10846), (375, 10942), (376, 10948), (383, 10978),

Gene: Joann_18 Start: 12611, Stop: 15172, Start Num: 11
Candidate Starts for Joann_18:
(7, 12590), (Start: 11 @12611 has 29 MA's), (18, 12701), (22, 12740), (26, 12776), (35, 12836), (38, 12884), (39, 12899), (53, 13067), (59, 13112), (62, 13163), (63, 13166), (69, 13250), (95, 13457), (96, 13466), (101, 13484), (107, 13526), (148, 13835), (154, 13868), (164, 13928), (168, 13952), (191,

14033), (192, 14039), (193, 14042), (200, 14066), (207, 14096), (214, 14117), (231, 14180), (235, 14195), (241, 14219), (243, 14231), (245, 14237), (248, 14252), (250, 14258), (251, 14261), (256, 14282), (260, 14297), (263, 14312), (269, 14330), (270, 14336), (274, 14351), (276, 14360), (278, 14369), (285, 14402), (286, 14405), (288, 14417), (289, 14423), (292, 14435), (308, 14501), (310, 14516), (327, 14615), (339, 14666), (342, 14678), (346, 14699), (361, 14798), (362, 14801), (369, 14855), (375, 14894), (386, 14951), (389, 14975), (401, 15017), (403, 15044), (414, 15113),

Gene: JohnThicc_15 Start: 8974, Stop: 11217, Start Num: 13
Candidate Starts for JohnThicc_15:
(Start: 13 @8974 has 28 MA's), (19, 9061), (31, 9163), (36, 9229), (45, 9334), (56, 9445), (58, 9451), (65, 9547), (68, 9589), (84, 9736), (87, 9754), (114, 9856), (168, 10012), (190, 10090), (206, 10138), (208, 10147), (214, 10165), (225, 10207), (228, 10216), (235, 10243), (242, 10273), (250, 10306), (276, 10408), (278, 10417), (281, 10429), (285, 10450), (286, 10453), (292, 10483), (314, 10591), (361, 10846), (364, 10858), (375, 10942), (376, 10948), (383, 10978),

Gene: Kalimba_16 Start: 10244, Stop: 12664, Start Num: 13
Candidate Starts for Kalimba_16:
(Start: 13 @10244 has 28 MA's), (19, 10331), (24, 10388), (32, 10436), (34, 10448), (38, 10508), (46, 10619), (54, 10700), (66, 10826), (67, 10841), (71, 10895), (94, 11069), (112, 11153), (117, 11174), (122, 11195), (127, 11216), (149, 11267), (165, 11342), (168, 11363), (178, 11396), (193, 11453), (205, 11495), (208, 11510), (213, 11561), (220, 11597), (244, 11705), (249, 11726), (258, 11768), (261, 11780), (275, 11834), (286, 11882), (308, 11978), (338, 12134), (342, 12155), (345, 12167), (353, 12218), (375, 12368), (383, 12404), (388, 12437), (413, 12596),

Gene: Kittykat_14 Start: 9756, Stop: 12314, Start Num: 11
Candidate Starts for Kittykat_14:
(7, 9735), (Start: 11 @9756 has 29 MA's), (16, 9804), (22, 9885), (35, 9981), (37, 10026), (39, 10044), (40, 10050), (51, 10191), (53, 10212), (59, 10257), (62, 10308), (63, 10311), (65, 10341), (69, 10395), (82, 10524), (95, 10602), (96, 10611), (97, 10617), (101, 10629), (104, 10662), (110, 10704), (115, 10749), (135, 10869), (136, 10872), (144, 10947), (154, 11010), (164, 11070), (167, 11088), (168, 11094), (171, 11106), (177, 11124), (191, 11175), (192, 11181), (199, 11205), (203, 11223), (207, 11238), (209, 11247), (222, 11292), (225, 11301), (231, 11322), (234, 11334), (235, 11337), (240, 11358), (241, 11361), (242, 11367), (243, 11373), (248, 11394), (250, 11400), (255, 11421), (261, 11445), (263, 11454), (267, 11466), (269, 11472), (274, 11493), (285, 11544), (286, 11547), (287, 11556), (288, 11559), (311, 11664), (312, 11676), (316, 11697), (328, 11766), (339, 11808), (342, 11820), (343, 11823), (346, 11841), (347, 11844), (361, 11940), (362, 11943), (369, 11997), (375, 12036), (378, 12054), (385, 12084), (386, 12093), (395, 12135), (414, 12255),

Gene: LadyAstra_15 Start: 8974, Stop: 11217, Start Num: 13
Candidate Starts for LadyAstra_15:
(Start: 13 @8974 has 28 MA's), (19, 9061), (31, 9163), (36, 9229), (45, 9334), (56, 9445), (58, 9451), (65, 9547), (68, 9589), (84, 9736), (87, 9754), (114, 9856), (168, 10012), (190, 10090), (206, 10138), (208, 10147), (214, 10165), (225, 10207), (228, 10216), (235, 10243), (242, 10273), (250, 10306), (276, 10408), (278, 10417), (281, 10429), (285, 10450), (286, 10453), (292, 10483), (314, 10591), (361, 10846), (364, 10858), (375, 10942), (376, 10948), (383, 10978),

Gene: Lakshmi_18 Start: 12636, Stop: 15197, Start Num: 11
Candidate Starts for Lakshmi_18:
(7, 12615), (Start: 11 @12636 has 29 MA's), (18, 12726), (22, 12765), (26, 12801), (35, 12861), (38, 12909), (39, 12924), (53, 13092), (59, 13137), (62, 13188), (63, 13191), (69, 13275), (91, 13461), (97, 13497), (101, 13509), (107, 13551), (120, 13662), (148, 13860), (164, 13953), (168, 13977), (169, 13980), (191, 14058), (192, 14064), (200, 14091), (207, 14121), (225, 14184), (230, 14199), (232, 14208), (233, 14211), (235, 14220), (241, 14244), (243, 14256), (245, 14262), (248, 14277), (250,

14283), (251, 14286), (256, 14307), (260, 14322), (263, 14337), (269, 14355), (270, 14361), (274, 14376), (276, 14385), (278, 14394), (285, 14427), (286, 14430), (288, 14442), (289, 14448), (292, 14460), (308, 14526), (310, 14541), (315, 14571), (316, 14580), (339, 14691), (347, 14727), (350, 14748), (361, 14823), (362, 14826), (369, 14880), (373, 14895), (375, 14919), (386, 14976), (389, 15000), (401, 15042), (403, 15069), (414, 15138),

Gene: Laroye_67 Start: 36530, Stop: 39547, Start Num: 2
Candidate Starts for Laroye_67:
(Start: 2 @36530 has 7 MA's), (5, 36551), (10, 36581), (12, 36584), (21, 36689), (30, 36773), (33, 36782), (36, 36842), (55, 37052), (56, 37058), (57, 37061), (58, 37064), (64, 37151), (68, 37202), (72, 37244), (73, 37247), (81, 37331), (84, 37349), (114, 37499), (139, 37592), (140, 37601), (160, 37691), (179, 37787), (184, 37805), (187, 37817), (192, 37835), (193, 37838), (196, 37850), (201, 37871), (204, 37883), (218, 37934), (241, 38027), (261, 38114), (271, 38150), (274, 38162), (276, 38171), (283, 38201), (286, 38216), (287, 38225), (299, 38294), (311, 38333), (331, 38459), (352, 38534), (362, 38609), (365, 38630), (370, 38663), (371, 38666), (377, 38708), (380, 38720), (384, 38741), (393, 38795), (409, 38897), (418, 38960), (424, 39071), (426, 39104), (428, 39158), (429, 39167), (433, 39260), (434, 39269), (436, 39368), (437, 39374), (439, 39404), (440, 39443), (442, 39530),

Gene: LastNadiia_20 Start: 11846, Stop: 14134, Start Num: 9
Candidate Starts for LastNadiia_20:
(Start: 9 @11846 has 2 MA's), (44, 12206), (45, 12209), (56, 12320), (57, 12323), (58, 12326), (68, 12464), (84, 12611), (119, 12782), (133, 12830), (172, 12962), (198, 13046), (202, 13058), (208, 13082), (219, 13124), (225, 13142), (229, 13154), (247, 13232), (248, 13235), (255, 13262), (260, 13280), (262, 13289), (269, 13313), (272, 13328), (274, 13334), (277, 13346), (278, 13352), (286, 13388), (292, 13418), (308, 13484), (338, 13640), (342, 13661), (343, 13664), (361, 13781), (362, 13784), (367, 13817), (386, 13934), (389, 13958), (412, 14075),

Gene: LiSara_64 Start: 36692, Stop: 39709, Start Num: 2
Candidate Starts for LiSara_64:
(Start: 2 @36692 has 7 MA's), (5, 36713), (10, 36743), (12, 36746), (21, 36851), (30, 36935), (33, 36944), (36, 37004), (55, 37214), (56, 37220), (57, 37223), (58, 37226), (64, 37313), (68, 37364), (72, 37406), (73, 37409), (81, 37493), (84, 37511), (114, 37661), (139, 37754), (140, 37763), (160, 37853), (179, 37949), (187, 37979), (192, 37997), (193, 38000), (196, 38012), (201, 38033), (204, 38045), (218, 38096), (241, 38189), (261, 38276), (271, 38312), (274, 38324), (276, 38333), (283, 38363), (286, 38378), (287, 38387), (299, 38456), (311, 38495), (331, 38621), (352, 38696), (362, 38771), (365, 38792), (370, 38825), (371, 38828), (377, 38870), (380, 38882), (384, 38903), (393, 38957), (409, 39059), (418, 39122), (424, 39233), (426, 39266), (428, 39320), (429, 39329), (432, 39398), (433, 39422), (434, 39431), (436, 39530), (437, 39536), (439, 39566), (440, 39605), (442, 39692),

Gene: Liebe_15 Start: 9206, Stop: 11569, Start Num: 13
Candidate Starts for Liebe_15:
(Start: 13 @9206 has 28 MA's), (31, 9395), (36, 9461), (43, 9536), (48, 9602), (56, 9677), (57, 9680), (58, 9683), (64, 9770), (65, 9779), (68, 9821), (84, 9968), (87, 9986), (103, 10061), (109, 10094), (116, 10127), (150, 10268), (183, 10391), (185, 10400), (199, 10439), (205, 10457), (208, 10472), (225, 10532), (227, 10538), (229, 10544), (232, 10556), (233, 10559), (246, 10613), (248, 10625), (252, 10637), (255, 10652), (274, 10724), (278, 10742), (280, 10751), (284, 10766), (286, 10778), (289, 10796), (292, 10808), (338, 11030), (361, 11171), (362, 11174), (367, 11207), (368, 11222), (369, 11228), (375, 11267), (386, 11324), (392, 11366), (402, 11414),

Gene: Litotes_18 Start: 12597, Stop: 15152, Start Num: 11
Candidate Starts for Litotes_18:
(7, 12576), (Start: 11 @12597 has 29 MA's), (16, 12645), (22, 12726), (24, 12750), (35, 12822), (38, 12870), (39, 12885), (40, 12891), (53, 13053), (62, 13149), (63, 13152), (65, 13182), (78, 13320), (95,

13443), (104, 13503), (108, 13521), (109, 13536), (115, 13587), (148, 13818), (162, 13887), (164, 13911), (167, 13929), (168, 13935), (183, 13989), (186, 14001), (192, 14022), (199, 14046), (222, 14133), (230, 14157), (231, 14163), (232, 14166), (235, 14178), (240, 14199), (241, 14202), (242, 14208), (243, 14214), (247, 14232), (248, 14235), (250, 14241), (261, 14286), (263, 14295), (269, 14313), (274, 14334), (276, 14343), (278, 14352), (285, 14385), (286, 14388), (287, 14397), (288, 14400), (297, 14451), (339, 14649), (342, 14661), (346, 14682), (347, 14685), (361, 14781), (362, 14784), (369, 14838), (375, 14877), (386, 14934), (395, 14976), (403, 15024), (411, 15066), (414, 15096),

Gene: MaGuCo_15 Start: 9140, Stop: 11503, Start Num: 13
Candidate Starts for MaGuCo_15:
(Start: 13 @9140 has 28 MA's), (31, 9329), (36, 9395), (43, 9470), (56, 9611), (57, 9614), (58, 9617), (64, 9704), (65, 9713), (68, 9755), (73, 9800), (84, 9902), (87, 9920), (109, 10028), (116, 10061), (150, 10202), (178, 10304), (183, 10325), (185, 10334), (199, 10373), (205, 10391), (207, 10403), (208, 10406), (225, 10466), (227, 10472), (229, 10478), (232, 10490), (233, 10493), (238, 10514), (246, 10547), (248, 10559), (252, 10571), (255, 10586), (274, 10658), (277, 10670), (278, 10676), (280, 10685), (284, 10700), (286, 10712), (289, 10730), (292, 10742), (338, 10964), (361, 11105), (362, 11108), (367, 11141), (369, 11162), (375, 11201), (386, 11258), (392, 11300), (402, 11348),

Gene: Makima_18 Start: 10929, Stop: 13217, Start Num: 9
Candidate Starts for Makima_18:
(Start: 9 @10929 has 2 MA's), (44, 11289), (45, 11292), (56, 11403), (57, 11406), (58, 11409), (68, 11547), (84, 11694), (119, 11865), (133, 11913), (208, 12165), (214, 12183), (225, 12225), (230, 12240), (247, 12315), (248, 12318), (255, 12345), (260, 12363), (262, 12372), (269, 12396), (272, 12411), (274, 12417), (277, 12429), (278, 12435), (286, 12471), (318, 12633), (338, 12723), (342, 12744), (343, 12747), (348, 12777), (361, 12864), (362, 12867), (367, 12900), (386, 13017), (389, 13041), (396, 13068), (412, 13158),

Gene: MamaPearl_14 Start: 9752, Stop: 12301, Start Num: 11
Candidate Starts for MamaPearl_14:
(6, 9722), (Start: 11 @9752 has 29 MA's), (22, 9881), (26, 9917), (38, 10025), (39, 10040), (51, 10187), (53, 10208), (62, 10304), (70, 10394), (79, 10487), (95, 10598), (104, 10658), (107, 10667), (146, 10940), (154, 10994), (161, 11027), (163, 11048), (164, 11054), (167, 11072), (191, 11159), (207, 11222), (222, 11276), (225, 11285), (231, 11306), (234, 11318), (235, 11321), (241, 11345), (242, 11351), (243, 11357), (246, 11366), (248, 11378), (250, 11384), (255, 11405), (263, 11438), (268, 11453), (269, 11456), (274, 11477), (275, 11483), (278, 11495), (285, 11528), (286, 11531), (287, 11540), (288, 11543), (291, 11558), (310, 11642), (316, 11681), (339, 11792), (342, 11804), (350, 11849), (361, 11924), (362, 11927), (369, 11981), (385, 12068), (386, 12077), (389, 12101), (391, 12113), (403, 12170), (405, 12176), (414, 12242), (422, 12284),

Gene: Maureen_15 Start: 9206, Stop: 11569, Start Num: 13
Candidate Starts for Maureen_15:
(Start: 13 @9206 has 28 MA's), (31, 9395), (36, 9461), (43, 9536), (48, 9602), (56, 9677), (57, 9680), (58, 9683), (64, 9770), (65, 9779), (68, 9821), (84, 9968), (87, 9986), (103, 10061), (109, 10094), (116, 10127), (150, 10268), (183, 10391), (185, 10400), (199, 10439), (205, 10457), (208, 10472), (225, 10532), (227, 10538), (229, 10544), (232, 10556), (233, 10559), (246, 10613), (248, 10625), (252, 10637), (255, 10652), (274, 10724), (278, 10742), (280, 10751), (284, 10766), (286, 10778), (289, 10796), (292, 10808), (338, 11030), (361, 11171), (362, 11174), (367, 11207), (368, 11222), (369, 11228), (375, 11267), (386, 11324), (392, 11366), (402, 11414),

Gene: Milani_20 Start: 12168, Stop: 14459, Start Num: 14
Candidate Starts for Milani_20:

(Start: 14 @12168 has 4 MA's), (25, 12285), (30, 12318), (35, 12345), (50, 12537), (64, 12693), (68, 12744), (74, 12795), (76, 12816), (81, 12873), (92, 12930), (113, 13017), (119, 13044), (124, 13065), (134, 13095), (135, 13098), (160, 13212), (193, 13356), (222, 13464), (237, 13518), (265, 13629), (287, 13707), (292, 13728), (294, 13740), (297, 13761), (309, 13806), (321, 13872), (330, 13938), (343, 13974), (344, 13980), (349, 14007), (354, 14046), (361, 14091), (362, 14094), (364, 14103), (365, 14115), (366, 14124), (367, 14127), (387, 14241), (398, 14292), (400, 14298),

Gene: MiniMommy_14 Start: 8972, Stop: 11215, Start Num: 13
Candidate Starts for MiniMommy_14:
(Start: 13 @8972 has 28 MA's), (19, 9059), (31, 9161), (36, 9227), (45, 9332), (56, 9443), (58, 9449), (65, 9545), (68, 9587), (84, 9734), (87, 9752), (119, 9869), (133, 9896), (149, 9929), (162, 9965), (168, 10013), (179, 10052), (190, 10091), (199, 10115), (206, 10139), (208, 10148), (210, 10157), (214, 10166), (225, 10208), (235, 10244), (238, 10256), (248, 10301), (250, 10307), (256, 10331), (265, 10367), (270, 10385), (276, 10409), (278, 10418), (281, 10430), (285, 10451), (286, 10454), (292, 10484), (343, 10730), (361, 10847), (375, 10943), (376, 10949), (383, 10979),

Gene: Mireles_17 Start: 9296, Stop: 11623, Start Num: 3
Candidate Starts for Mireles_17:
(3, 9296), (Start: 9 @9332 has 2 MA's), (44, 9692), (45, 9695), (56, 9806), (58, 9812), (68, 9950), (84, 10097), (87, 10115), (120, 10274), (128, 10301), (160, 10376), (182, 10484), (205, 10553), (208, 10568), (214, 10586), (215, 10589), (221, 10616), (225, 10628), (226, 10631), (228, 10637), (238, 10676), (246, 10709), (248, 10721), (251, 10730), (259, 10763), (260, 10766), (286, 10874), (292, 10904), (296, 10934), (297, 10937), (311, 10991), (314, 11012), (315, 11015), (319, 11039), (338, 11126), (342, 11147), (343, 11150), (361, 11267), (362, 11270), (367, 11303), (375, 11363), (386, 11420), (389, 11444), (390, 11453), (404, 11513), (412, 11564), (416, 11591),

Gene: Misaeng_18 Start: 12684, Stop: 15242, Start Num: 11
Candidate Starts for Misaeng_18:
(7, 12663), (Start: 11 @12684 has 29 MA's), (18, 12774), (22, 12813), (26, 12849), (39, 12972), (53, 13140), (59, 13185), (62, 13236), (63, 13239), (69, 13323), (95, 13530), (96, 13539), (101, 13557), (102, 13560), (107, 13599), (136, 13800), (140, 13851), (148, 13905), (164, 13998), (168, 14022), (187, 14091), (191, 14103), (192, 14109), (193, 14112), (200, 14136), (207, 14166), (214, 14187), (227, 14235), (231, 14250), (233, 14256), (235, 14265), (241, 14289), (243, 14301), (245, 14307), (248, 14322), (250, 14328), (251, 14331), (260, 14367), (261, 14373), (263, 14382), (269, 14400), (270, 14406), (274, 14421), (276, 14430), (280, 14448), (285, 14472), (286, 14475), (288, 14487), (292, 14505), (308, 14571), (310, 14586), (315, 14616), (316, 14625), (319, 14640), (327, 14685), (339, 14736), (347, 14772), (361, 14868), (362, 14871), (369, 14925), (375, 14964), (386, 15021), (389, 15045), (401, 15087), (403, 15114), (414, 15183),

Gene: Moki_14 Start: 9720, Stop: 12287, Start Num: 11
Candidate Starts for Moki_14:
(7, 9699), (Start: 11 @9720 has 29 MA's), (16, 9768), (22, 9849), (24, 9873), (35, 9945), (38, 9993), (39, 10008), (40, 10014), (53, 10176), (61, 10269), (62, 10272), (63, 10275), (65, 10305), (70, 10362), (83, 10500), (87, 10521), (95, 10566), (101, 10593), (104, 10626), (108, 10644), (114, 10686), (120, 10743), (161, 11007), (164, 11034), (167, 11052), (168, 11058), (175, 11082), (181, 11103), (191, 11139), (198, 11166), (206, 11196), (207, 11202), (221, 11253), (231, 11286), (241, 11325), (242, 11331), (243, 11337), (246, 11346), (248, 11358), (250, 11364), (256, 11388), (261, 11409), (263, 11418), (274, 11457), (278, 11475), (285, 11508), (286, 11511), (288, 11523), (291, 11538), (299, 11589), (310, 11622), (312, 11640), (317, 11664), (324, 11706), (339, 11772), (342, 11784), (350, 11829), (361, 11904), (362, 11907), (369, 11961), (375, 12000), (381, 12027), (386, 12057), (388, 12069), (389, 12081), (390, 12090), (403, 12156), (411, 12198), (414, 12228),

Gene: Moss_16 Start: 10335, Stop: 12755, Start Num: 13

Candidate Starts for Moss_16:
(Start: 13 @10335 has 28 MA's), (19, 10422), (32, 10527), (34, 10539), (38, 10599), (46, 10710), (54, 10791), (66, 10917), (67, 10932), (71, 10986), (94, 11160), (112, 11244), (117, 11265), (127, 11307), (165, 11433), (168, 11454), (178, 11487), (193, 11544), (205, 11586), (208, 11601), (213, 11652), (220, 11688), (221, 11694), (244, 11796), (249, 11817), (258, 11859), (274, 11919), (275, 11925), (286, 11973), (308, 12069), (342, 12246), (345, 12258), (353, 12309), (365, 12390), (375, 12459), (383, 12495), (399, 12576), (401, 12591), (410, 12663), (413, 12687),

Gene: MrBoss_18 Start: 12597, Stop: 15152, Start Num: 11
Candidate Starts for MrBoss_18:
(7, 12576), (Start: 11 @12597 has 29 MA's), (16, 12645), (22, 12726), (24, 12750), (35, 12822), (38, 12870), (39, 12885), (40, 12891), (53, 13053), (62, 13149), (63, 13152), (65, 13182), (78, 13320), (95, 13443), (104, 13503), (108, 13521), (109, 13536), (115, 13587), (148, 13818), (162, 13887), (164, 13911), (167, 13929), (168, 13935), (183, 13989), (186, 14001), (192, 14022), (199, 14046), (222, 14133), (230, 14157), (231, 14163), (232, 14166), (235, 14178), (240, 14199), (241, 14202), (242, 14208), (243, 14214), (247, 14232), (248, 14235), (250, 14241), (261, 14286), (263, 14295), (269, 14313), (274, 14334), (276, 14343), (278, 14352), (286, 14388), (287, 14397), (288, 14400), (291, 14415), (297, 14451), (317, 14541), (339, 14649), (342, 14661), (346, 14682), (347, 14685), (361, 14781), (362, 14784), (369, 14838), (375, 14877), (386, 14934), (395, 14976), (403, 15024), (411, 15066), (414, 15096),

Gene: Mysterium_16 Start: 10336, Stop: 12756, Start Num: 13
Candidate Starts for Mysterium_16:
(Start: 13 @10336 has 28 MA's), (19, 10423), (32, 10528), (34, 10540), (38, 10600), (46, 10711), (54, 10792), (66, 10918), (67, 10933), (71, 10987), (94, 11161), (112, 11245), (117, 11266), (127, 11308), (165, 11434), (168, 11455), (178, 11488), (193, 11545), (205, 11587), (208, 11602), (213, 11653), (220, 11689), (221, 11695), (244, 11797), (249, 11818), (258, 11860), (274, 11920), (275, 11926), (286, 11974), (308, 12070), (338, 12226), (342, 12247), (345, 12259), (353, 12310), (375, 12460), (383, 12496), (399, 12577), (410, 12664), (413, 12688),

Gene: Neuvillette_17 Start: 9567, Stop: 11855, Start Num: 8
Candidate Starts for Neuvillette_17:
(8, 9567), (Start: 9 @9570 has 2 MA's), (20, 9669), (36, 9828), (56, 10044), (68, 10188), (80, 10299), (84, 10335), (91, 10377), (121, 10515), (130, 10545), (131, 10548), (143, 10566), (158, 10608), (174, 10692), (181, 10716), (197, 10764), (208, 10806), (209, 10812), (221, 10854), (227, 10872), (238, 10914), (241, 10926), (246, 10947), (251, 10968), (253, 10977), (254, 10983), (259, 11001), (260, 11004), (268, 11034), (270, 11043), (286, 11112), (291, 11139), (292, 11142), (308, 11208), (311, 11229), (315, 11253), (319, 11277), (325, 11316), (342, 11385), (344, 11394), (349, 11421), (361, 11505), (362, 11508), (375, 11601), (376, 11607), (386, 11658), (389, 11682), (390, 11691), (402, 11736), (421, 11850),

Gene: Nubia_18 Start: 12596, Stop: 15157, Start Num: 11
Candidate Starts for Nubia_18:
(7, 12575), (Start: 11 @12596 has 29 MA's), (18, 12686), (22, 12725), (26, 12761), (35, 12821), (38, 12869), (39, 12884), (53, 13052), (59, 13097), (62, 13148), (63, 13151), (69, 13235), (91, 13421), (97, 13457), (101, 13469), (107, 13511), (148, 13820), (164, 13913), (167, 13931), (168, 13937), (191, 14018), (192, 14024), (200, 14051), (207, 14081), (225, 14144), (230, 14159), (231, 14165), (232, 14168), (235, 14180), (241, 14204), (243, 14216), (245, 14222), (248, 14237), (250, 14243), (251, 14246), (256, 14267), (260, 14282), (261, 14288), (263, 14297), (269, 14315), (270, 14321), (274, 14336), (276, 14345), (278, 14354), (285, 14387), (286, 14390), (288, 14402), (289, 14408), (292, 14420), (299, 14468), (308, 14486), (310, 14501), (315, 14531), (316, 14540), (327, 14600), (339, 14651), (347, 14687), (350, 14708), (361, 14783), (362, 14786), (369, 14840), (375, 14879), (386, 14936), (389, 14960), (401, 15002), (403, 15029), (414, 15098),

Gene: Origami_15 Start: 8974, Stop: 11217, Start Num: 13
Candidate Starts for Origami_15:
(Start: 13 @8974 has 28 MA's), (19, 9061), (31, 9163), (36, 9229), (45, 9334), (56, 9445), (58, 9451),
(65, 9547), (68, 9589), (84, 9736), (87, 9754), (114, 9856), (168, 10012), (190, 10090), (206, 10138),
(208, 10147), (214, 10165), (225, 10207), (228, 10216), (235, 10243), (242, 10273), (250, 10306),
(276, 10408), (278, 10417), (281, 10429), (285, 10450), (286, 10453), (292, 10483), (314, 10591),
(361, 10846), (364, 10858), (375, 10942), (376, 10948), (383, 10978),

Gene: Oxynfrius_18 Start: 12609, Stop: 15170, Start Num: 11
Candidate Starts for Oxynfrius_18:
(7, 12588), (Start: 11 @12609 has 29 MA's), (18, 12699), (22, 12738), (26, 12774), (35, 12834), (38,
12882), (39, 12897), (53, 13065), (59, 13110), (62, 13161), (63, 13164), (69, 13248), (91, 13434), (97,
13470), (101, 13482), (107, 13524), (120, 13635), (148, 13833), (164, 13926), (168, 13950), (169,
13953), (191, 14031), (192, 14037), (200, 14064), (207, 14094), (225, 14157), (230, 14172), (232,
14181), (233, 14184), (235, 14193), (241, 14217), (243, 14229), (245, 14235), (248, 14250), (250,
14256), (251, 14259), (256, 14280), (260, 14295), (263, 14310), (269, 14328), (270, 14334), (274,
14349), (276, 14358), (278, 14367), (285, 14400), (286, 14403), (288, 14415), (289, 14421), (292,
14433), (308, 14499), (310, 14514), (315, 14544), (316, 14553), (339, 14664), (347, 14700), (350,
14721), (361, 14796), (362, 14799), (369, 14853), (375, 14892), (386, 14949), (389, 14973), (401,
15015), (403, 15042), (414, 15111),

Gene: PartyCup_18 Start: 12644, Stop: 15199, Start Num: 11
Candidate Starts for PartyCup_18:
(7, 12623), (Start: 11 @12644 has 29 MA's), (16, 12692), (22, 12773), (24, 12797), (35, 12869), (38,
12917), (39, 12932), (40, 12938), (53, 13100), (59, 13145), (62, 13196), (63, 13199), (65, 13229), (78,
13367), (95, 13490), (104, 13550), (108, 13568), (109, 13583), (115, 13634), (148, 13865), (162,
13934), (164, 13958), (167, 13976), (168, 13982), (183, 14036), (186, 14048), (192, 14069), (199,
14093), (222, 14180), (230, 14204), (231, 14210), (232, 14213), (235, 14225), (240, 14246), (241,
14249), (242, 14255), (243, 14261), (247, 14279), (248, 14282), (250, 14288), (261, 14333), (263,
14342), (269, 14360), (274, 14381), (276, 14390), (278, 14399), (285, 14432), (286, 14435), (287,
14444), (288, 14447), (297, 14498), (317, 14588), (339, 14696), (342, 14708), (346, 14729), (347,
14732), (361, 14828), (362, 14831), (369, 14885), (375, 14924), (386, 14981), (395, 15023), (403,
15071), (411, 15113), (414, 15143),

Gene: Preamble_14 Start: 9721, Stop: 12279, Start Num: 11
Candidate Starts for Preamble_14:
(7, 9700), (Start: 11 @9721 has 29 MA's), (16, 9769), (22, 9850), (35, 9946), (37, 9991), (39, 10009),
(40, 10015), (51, 10156), (53, 10177), (59, 10222), (62, 10273), (63, 10276), (65, 10306), (82, 10489),
(95, 10567), (96, 10576), (97, 10582), (101, 10594), (104, 10627), (110, 10669), (115, 10714), (135,
10834), (136, 10837), (154, 10975), (164, 11035), (167, 11053), (168, 11059), (177, 11089), (191,
11140), (192, 11146), (203, 11188), (207, 11203), (209, 11212), (222, 11257), (225, 11266), (231,
11287), (234, 11299), (235, 11302), (240, 11323), (241, 11326), (242, 11332), (243, 11338), (248,
11359), (250, 11365), (255, 11386), (261, 11410), (263, 11419), (269, 11437), (274, 11458), (285,
11509), (286, 11512), (287, 11521), (288, 11524), (311, 11629), (313, 11644), (316, 11662), (328,
11731), (339, 11773), (342, 11785), (346, 11806), (347, 11809), (361, 11905), (362, 11908), (369,
11962), (375, 12001), (378, 12019), (385, 12049), (386, 12058), (395, 12100), (414, 12220),

Gene: RcigaStruga_18 Start: 12617, Stop: 15178, Start Num: 11
Candidate Starts for RcigaStruga_18:
(7, 12596), (Start: 11 @12617 has 29 MA's), (18, 12707), (22, 12746), (26, 12782), (35, 12842), (39,
12905), (53, 13073), (59, 13118), (61, 13166), (62, 13169), (63, 13172), (69, 13256), (70, 13259), (83,
13397), (95, 13463), (101, 13490), (107, 13532), (148, 13841), (154, 13874), (164, 13934), (168,

13958), (191, 14039), (192, 14045), (193, 14048), (200, 14072), (207, 14102), (214, 14123), (227, 14171), (231, 14186), (235, 14201), (241, 14225), (243, 14237), (245, 14243), (248, 14258), (250, 14264), (260, 14303), (261, 14309), (263, 14318), (269, 14336), (270, 14342), (273, 14354), (274, 14357), (276, 14366), (280, 14384), (285, 14408), (286, 14411), (288, 14423), (292, 14441), (308, 14507), (310, 14522), (315, 14552), (316, 14561), (327, 14621), (339, 14672), (347, 14708), (361, 14804), (362, 14807), (369, 14861), (375, 14900), (381, 14927), (386, 14957), (389, 14981), (401, 15023), (403, 15050), (414, 15119),

Gene: Roberts_17 Start: 9567, Stop: 11855, Start Num: 8
Candidate Starts for Roberts_17:
(8, 9567), (Start: 9 @9570 has 2 MA's), (20, 9669), (36, 9828), (56, 10044), (68, 10188), (80, 10299), (84, 10335), (91, 10377), (121, 10515), (130, 10545), (131, 10548), (143, 10566), (158, 10608), (174, 10692), (181, 10716), (197, 10764), (208, 10806), (209, 10812), (221, 10854), (227, 10872), (238, 10914), (241, 10926), (246, 10947), (251, 10968), (253, 10977), (254, 10983), (259, 11001), (260, 11004), (268, 11034), (270, 11043), (286, 11112), (291, 11139), (292, 11142), (308, 11208), (311, 11229), (315, 11253), (319, 11277), (325, 11316), (342, 11385), (344, 11394), (349, 11421), (361, 11505), (362, 11508), (375, 11601), (376, 11607), (386, 11658), (389, 11682), (390, 11691), (402, 11736), (421, 11850),

Gene: RockScotty_16 Start: 10335, Stop: 12755, Start Num: 13
Candidate Starts for RockScotty_16:
(Start: 13 @10335 has 28 MA's), (19, 10422), (32, 10527), (34, 10539), (38, 10599), (46, 10710), (54, 10791), (66, 10917), (67, 10932), (71, 10986), (94, 11160), (112, 11244), (117, 11265), (127, 11307), (165, 11433), (168, 11454), (178, 11487), (193, 11544), (205, 11586), (208, 11601), (213, 11652), (220, 11688), (221, 11694), (244, 11796), (249, 11817), (258, 11859), (274, 11919), (275, 11925), (286, 11973), (308, 12069), (342, 12246), (345, 12258), (353, 12309), (365, 12390), (375, 12459), (383, 12495), (399, 12576), (401, 12591), (410, 12663), (413, 12687),

Gene: Sabourin_16 Start: 10242, Stop: 12662, Start Num: 13
Candidate Starts for Sabourin_16:
(Start: 13 @10242 has 28 MA's), (19, 10329), (24, 10386), (32, 10434), (34, 10446), (38, 10506), (46, 10617), (54, 10698), (66, 10824), (67, 10839), (71, 10893), (94, 11067), (112, 11151), (117, 11172), (122, 11193), (127, 11214), (165, 11340), (168, 11361), (178, 11394), (193, 11451), (205, 11493), (208, 11508), (213, 11559), (220, 11595), (244, 11703), (249, 11724), (258, 11766), (261, 11778), (275, 11832), (286, 11880), (308, 11976), (338, 12132), (342, 12153), (345, 12165), (353, 12216), (375, 12366), (383, 12402), (399, 12483), (413, 12594),

Gene: Salgado_67 Start: 36346, Stop: 39363, Start Num: 2
Candidate Starts for Salgado_67:
(Start: 2 @36346 has 7 MA's), (5, 36367), (10, 36397), (12, 36400), (21, 36505), (30, 36589), (33, 36598), (36, 36658), (55, 36868), (56, 36874), (57, 36877), (58, 36880), (64, 36967), (68, 37018), (72, 37060), (73, 37063), (81, 37147), (84, 37165), (114, 37315), (123, 37354), (139, 37408), (140, 37417), (160, 37507), (179, 37603), (187, 37633), (192, 37651), (193, 37654), (196, 37666), (201, 37687), (204, 37699), (218, 37750), (241, 37843), (261, 37930), (271, 37966), (274, 37978), (276, 37987), (283, 38017), (286, 38032), (287, 38041), (299, 38110), (311, 38149), (331, 38275), (352, 38350), (362, 38425), (365, 38446), (370, 38479), (371, 38482), (377, 38524), (380, 38536), (384, 38557), (393, 38611), (409, 38713), (418, 38776), (424, 38887), (426, 38920), (428, 38974), (429, 38983), (433, 39076), (434, 39085), (436, 39184), (437, 39190), (439, 39220), (440, 39259), (442, 39346),

Gene: ShakeItOph_15 Start: 8971, Stop: 11214, Start Num: 13
Candidate Starts for ShakeItOph_15:
(Start: 13 @8971 has 28 MA's), (19, 9058), (31, 9160), (36, 9226), (45, 9331), (56, 9442), (58, 9448), (65, 9544), (68, 9586), (84, 9733), (87, 9751), (119, 9868), (133, 9895), (149, 9928), (162, 9964), (168,

10012), (179, 10051), (190, 10090), (206, 10138), (208, 10147), (210, 10156), (214, 10165), (225, 10207), (235, 10243), (238, 10255), (248, 10300), (250, 10306), (256, 10330), (265, 10366), (270, 10384), (276, 10408), (278, 10417), (281, 10429), (285, 10450), (286, 10453), (292, 10483), (343, 10729), (361, 10846), (375, 10942), (376, 10948), (383, 10978),

Gene: Shrooms_65 Start: 34492, Stop: 37881, Start Num: 2
Candidate Starts for Shrooms_65:
(1, 34486), (Start: 2 @34492 has 7 MA's), (4, 34510), (5, 34513), (10, 34543), (12, 34546), (17, 34621), (28, 34723), (30, 34735), (36, 34804), (56, 35020), (57, 35023), (58, 35026), (64, 35113), (68, 35164), (73, 35209), (76, 35236), (84, 35311), (87, 35329), (92, 35362), (106, 35431), (118, 35491), (119, 35494), (129, 35560), (130, 35566), (135, 35587), (137, 35602), (140, 35644), (150, 35698), (155, 35722), (157, 35728), (160, 35743), (162, 35752), (178, 35833), (186, 35866), (196, 35902), (204, 35935), (218, 35986), (224, 36016), (240, 36076), (241, 36079), (261, 36166), (264, 36178), (267, 36187), (276, 36223), (279, 36235), (283, 36253), (288, 36280), (297, 36331), (300, 36364), (301, 36409), (302, 36427), (303, 36433), (304, 36445), (305, 36463), (306, 36472), (311, 36517), (323, 36586), (329, 36631), (332, 36649), (333, 36673), (334, 36676), (335, 36685), (336, 36697), (337, 36709), (340, 36751), (341, 36817), (354, 36907), (359, 36940), (362, 36958), (370, 37012), (371, 37015), (379, 37066), (380, 37069), (384, 37090), (386, 37102), (389, 37126), (390, 37135), (397, 37156), (409, 37246), (412, 37267), (418, 37309), (422, 37327), (423, 37399), (424, 37420), (425, 37444), (426, 37453), (427, 37474), (428, 37507), (433, 37609), (435, 37654), (438, 37720), (440, 37777),

Gene: Snek_16 Start: 9838, Stop: 12117, Start Num: 13
Candidate Starts for Snek_16:
(Start: 13 @9838 has 28 MA's), (34, 10042), (36, 10093), (44, 10195), (51, 10261), (56, 10309), (58, 10315), (64, 10402), (65, 10411), (68, 10453), (73, 10498), (84, 10600), (87, 10618), (116, 10747), (126, 10762), (143, 10804), (156, 10825), (160, 10840), (183, 10951), (206, 11023), (208, 11032), (210, 11041), (215, 11053), (227, 11098), (229, 11104), (233, 11119), (238, 11140), (248, 11185), (269, 11263), (286, 11338), (289, 11356), (319, 11503), (343, 11614), (353, 11677), (356, 11698), (360, 11725), (363, 11740), (376, 11830), (383, 11860), (395, 11926), (413, 12052), (420, 12091),

Gene: Sooty_16 Start: 10245, Stop: 12665, Start Num: 13
Candidate Starts for Sooty_16:
(Start: 13 @10245 has 28 MA's), (19, 10332), (24, 10389), (32, 10437), (34, 10449), (38, 10509), (46, 10620), (54, 10701), (66, 10827), (67, 10842), (71, 10896), (94, 11070), (112, 11154), (117, 11175), (122, 11196), (127, 11217), (149, 11268), (165, 11343), (168, 11364), (178, 11397), (193, 11454), (205, 11496), (208, 11511), (213, 11562), (220, 11598), (244, 11706), (249, 11727), (258, 11769), (261, 11781), (275, 11835), (286, 11883), (308, 11979), (338, 12135), (342, 12156), (345, 12168), (353, 12219), (375, 12369), (383, 12405), (388, 12438), (413, 12597),

Gene: SpecialK_16 Start: 10242, Stop: 12662, Start Num: 13
Candidate Starts for SpecialK_16:
(Start: 13 @10242 has 28 MA's), (19, 10329), (32, 10434), (34, 10446), (38, 10506), (46, 10617), (54, 10698), (66, 10824), (67, 10839), (71, 10893), (94, 11067), (112, 11151), (117, 11172), (127, 11214), (165, 11340), (168, 11361), (178, 11394), (193, 11451), (205, 11493), (208, 11508), (213, 11559), (220, 11595), (221, 11601), (244, 11703), (249, 11724), (258, 11766), (274, 11826), (275, 11832), (286, 11880), (308, 11976), (342, 12153), (345, 12165), (353, 12216), (365, 12297), (375, 12366), (383, 12402), (399, 12483), (401, 12498), (410, 12570), (413, 12594),

Gene: Studio_18 Start: 9327, Stop: 11615, Start Num: 8
Candidate Starts for Studio_18:
(8, 9327), (Start: 9 @9330 has 2 MA's), (36, 9588), (56, 9804), (57, 9807), (68, 9948), (84, 10095), (91, 10137), (95, 10158), (130, 10305), (133, 10314), (158, 10368), (159, 10371), (160, 10374), (190,

10509), (208, 10566), (221, 10614), (241, 10686), (246, 10707), (251, 10728), (253, 10737), (254, 10743), (259, 10761), (260, 10764), (262, 10773), (267, 10791), (270, 10803), (275, 10824), (276, 10827), (277, 10830), (286, 10872), (291, 10899), (292, 10902), (316, 11022), (322, 11055), (325, 11076), (326, 11079), (343, 11148), (344, 11154), (361, 11265), (362, 11268), (375, 11361), (376, 11367), (385, 11409), (386, 11418), (389, 11442), (390, 11451), (396, 11469), (421, 11610),

Gene: Stuu_16 Start: 10335, Stop: 12755, Start Num: 13
Candidate Starts for Stuu_16:
(Start: 13 @10335 has 28 MA's), (19, 10422), (32, 10527), (34, 10539), (38, 10599), (46, 10710), (54, 10791), (66, 10917), (67, 10932), (71, 10986), (94, 11160), (112, 11244), (117, 11265), (127, 11307), (165, 11433), (168, 11454), (178, 11487), (193, 11544), (205, 11586), (208, 11601), (213, 11652), (220, 11688), (221, 11694), (244, 11796), (249, 11817), (258, 11859), (274, 11919), (275, 11925), (286, 11973), (308, 12069), (338, 12225), (342, 12246), (345, 12258), (353, 12309), (375, 12459), (383, 12495), (410, 12663), (413, 12687),

Gene: Sucha_16 Start: 10506, Stop: 12797, Start Num: 14
Candidate Starts for Sucha_16:
(Start: 14 @10506 has 4 MA's), (25, 10623), (30, 10656), (43, 10797), (50, 10875), (64, 11031), (68, 11082), (74, 11133), (76, 11154), (92, 11268), (93, 11271), (95, 11292), (111, 11349), (142, 11478), (144, 11481), (147, 11499), (151, 11517), (157, 11541), (195, 11703), (218, 11784), (222, 11802), (229, 11823), (237, 11856), (238, 11859), (266, 11964), (272, 11988), (292, 12066), (293, 12069), (297, 12099), (309, 12144), (315, 12177), (330, 12276), (343, 12312), (344, 12318), (349, 12345), (354, 12384), (361, 12429), (364, 12441), (365, 12453), (366, 12462), (367, 12465), (387, 12579), (398, 12630), (401, 12645),

Gene: Sue2_16 Start: 10752, Stop: 13142, Start Num: 13
Candidate Starts for Sue2_16:
(Start: 13 @10752 has 28 MA's), (15, 10785), (25, 10905), (31, 10941), (36, 11007), (44, 11109), (56, 11223), (58, 11229), (64, 11316), (65, 11325), (68, 11367), (84, 11514), (138, 11790), (163, 11874), (191, 11985), (211, 12063), (214, 12069), (217, 12078), (223, 12105), (248, 12204), (274, 12303), (277, 12315), (283, 12342), (286, 12357), (287, 12366), (289, 12375), (297, 12420), (316, 12507), (324, 12552), (350, 12675), (358, 12732), (361, 12750), (362, 12753), (368, 12801), (378, 12864), (386, 12903), (413, 13077),

Gene: Suppi_18 Start: 12647, Stop: 15202, Start Num: 11
Candidate Starts for Suppi_18:
(7, 12626), (Start: 11 @12647 has 29 MA's), (16, 12695), (22, 12776), (24, 12800), (35, 12872), (38, 12920), (39, 12935), (40, 12941), (53, 13103), (59, 13148), (62, 13199), (63, 13202), (65, 13232), (78, 13370), (95, 13493), (104, 13553), (108, 13571), (109, 13586), (115, 13637), (148, 13868), (162, 13937), (164, 13961), (167, 13979), (168, 13985), (183, 14039), (186, 14051), (192, 14072), (199, 14096), (222, 14183), (230, 14207), (231, 14213), (232, 14216), (235, 14228), (240, 14249), (241, 14252), (242, 14258), (243, 14264), (246, 14273), (247, 14282), (248, 14285), (250, 14291), (256, 14315), (261, 14336), (263, 14345), (269, 14363), (274, 14384), (276, 14393), (278, 14402), (285, 14435), (286, 14438), (287, 14447), (288, 14450), (297, 14501), (317, 14591), (339, 14699), (342, 14711), (346, 14732), (347, 14735), (361, 14831), (362, 14834), (369, 14888), (375, 14927), (386, 14984), (395, 15026), (403, 15074), (411, 15116), (414, 15146),

Gene: TMaxx_17 Start: 9424, Stop: 11712, Start Num: 9
Candidate Starts for TMaxx_17:
(Start: 9 @9424 has 2 MA's), (44, 9784), (45, 9787), (56, 9898), (57, 9901), (58, 9904), (68, 10042), (84, 10189), (89, 10219), (98, 10270), (119, 10360), (149, 10441), (166, 10516), (176, 10552), (179, 10564), (180, 10567), (188, 10600), (208, 10660), (226, 10723), (228, 10729), (229, 10732), (234, 10753), (236, 10759), (239, 10774), (246, 10801), (248, 10813), (251, 10822), (255, 10840), (259,

10855), (260, 10858), (262, 10867), (263, 10873), (267, 10885), (274, 10912), (278, 10930), (283, 10951), (286, 10966), (338, 11218), (342, 11239), (343, 11242), (361, 11359), (362, 11362), (375, 11455), (386, 11512), (389, 11536), (390, 11545), (396, 11563), (407, 11614), (408, 11629), (412, 11653),

Gene: ThursdayNight_14 Start: 9237, Stop: 11804, Start Num: 13
Candidate Starts for ThursdayNight_14:
(Start: 13 @9237 has 28 MA's), (19, 9324), (27, 9405), (28, 9411), (31, 9426), (36, 9492), (44, 9594), (52, 9669), (56, 9708), (58, 9714), (64, 9801), (68, 9852), (73, 9897), (84, 9999), (87, 10017), (90, 10038), (95, 10074), (132, 10332), (169, 10578), (185, 10638), (205, 10695), (206, 10701), (208, 10710), (227, 10776), (229, 10782), (233, 10797), (235, 10806), (248, 10863), (256, 10893), (270, 10947), (274, 10962), (278, 10980), (281, 10992), (286, 11016), (289, 11034), (307, 11100), (361, 11409), (362, 11412), (372, 11478), (375, 11505), (386, 11562), (390, 11595), (402, 11646), (417, 11760),

Gene: TripleC_20 Start: 12930, Stop: 15218, Start Num: 9
Candidate Starts for TripleC_20:
(Start: 9 @12930 has 2 MA's), (21, 13035), (44, 13290), (45, 13293), (51, 13356), (56, 13404), (57, 13407), (58, 13410), (68, 13548), (84, 13695), (89, 13725), (98, 13776), (119, 13866), (149, 13947), (164, 14007), (176, 14058), (179, 14070), (180, 14073), (208, 14166), (214, 14184), (215, 14187), (226, 14229), (228, 14235), (229, 14238), (235, 14262), (250, 14325), (251, 14328), (255, 14346), (262, 14373), (269, 14397), (272, 14412), (274, 14418), (277, 14430), (278, 14436), (283, 14457), (284, 14460), (286, 14472), (289, 14490), (315, 14613), (318, 14634), (338, 14724), (342, 14745), (343, 14748), (348, 14778), (357, 14844), (361, 14865), (362, 14868), (367, 14901), (375, 14961), (386, 15018), (389, 15042), (390, 15051), (408, 15135), (412, 15159),

Gene: Tweety19_16 Start: 9837, Stop: 12116, Start Num: 13
Candidate Starts for Tweety19_16:
(Start: 13 @9837 has 28 MA's), (34, 10041), (36, 10092), (44, 10194), (51, 10260), (56, 10308), (58, 10314), (64, 10401), (65, 10410), (68, 10452), (73, 10497), (84, 10599), (87, 10617), (116, 10746), (126, 10761), (143, 10803), (156, 10824), (160, 10839), (183, 10950), (206, 11022), (208, 11031), (210, 11040), (215, 11052), (227, 11097), (229, 11103), (233, 11118), (238, 11139), (248, 11184), (269, 11262), (286, 11337), (289, 11355), (319, 11502), (343, 11613), (353, 11676), (356, 11697), (360, 11724), (363, 11739), (376, 11829), (383, 11859), (395, 11925), (413, 12051), (420, 12090),

Gene: Urla_14 Start: 9754, Stop: 12303, Start Num: 11
Candidate Starts for Urla_14:
(Start: 11 @9754 has 29 MA's), (22, 9883), (26, 9919), (38, 10027), (39, 10042), (51, 10189), (53, 10210), (62, 10306), (70, 10396), (95, 10600), (104, 10660), (107, 10669), (154, 10996), (163, 11050), (164, 11056), (167, 11074), (178, 11113), (191, 11161), (207, 11224), (222, 11278), (230, 11302), (231, 11308), (241, 11347), (243, 11359), (247, 11377), (248, 11380), (250, 11386), (251, 11389), (255, 11407), (263, 11440), (269, 11458), (274, 11479), (276, 11488), (278, 11497), (285, 11530), (286, 11533), (287, 11542), (288, 11545), (291, 11560), (310, 11644), (317, 11686), (339, 11794), (342, 11806), (350, 11851), (351, 11860), (361, 11926), (362, 11929), (369, 11983), (375, 12022), (385, 12070), (386, 12079), (389, 12103), (391, 12115), (403, 12172), (405, 12178), (414, 12244), (422, 12286),

Gene: VResidence_16 Start: 10828, Stop: 13143, Start Num: 13
Candidate Starts for VResidence_16:
(Start: 13 @10828 has 28 MA's), (15, 10861), (19, 10915), (26, 10984), (41, 11116), (42, 11143), (47, 11224), (53, 11275), (54, 11284), (61, 11368), (71, 11479), (77, 11530), (88, 11620), (94, 11644), (99, 11671), (125, 11764), (180, 11956), (187, 11983), (199, 12016), (208, 12049), (214, 12067), (216, 12073), (227, 12115), (230, 12124), (233, 12136), (246, 12190), (252, 12214), (262, 12256), (263,

12262), (276, 12310), (286, 12355), (289, 12373), (292, 12385), (298, 12430), (315, 12496), (316, 12505), (358, 12730), (361, 12748), (362, 12751), (372, 12817), (378, 12862), (383, 12880), (386, 12901), (406, 13012), (413, 13078),

Gene: VroomVroom_15 Start: 8983, Stop: 11226, Start Num: 13
Candidate Starts for VroomVroom_15:
(Start: 13 @8983 has 28 MA's), (19, 9070), (27, 9151), (31, 9172), (36, 9238), (45, 9343), (56, 9454), (58, 9460), (65, 9556), (68, 9598), (84, 9745), (119, 9880), (133, 9907), (149, 9940), (168, 10024), (179, 10063), (190, 10102), (199, 10126), (206, 10150), (208, 10159), (214, 10177), (220, 10204), (225, 10219), (235, 10255), (238, 10267), (248, 10312), (250, 10318), (265, 10378), (270, 10396), (276, 10420), (285, 10462), (286, 10465), (292, 10495), (314, 10603), (361, 10858), (364, 10870), (375, 10954), (376, 10960), (383, 10990),

Gene: Waltz_64 Start: 34787, Stop: 37879, Start Num: 2
Candidate Starts for Waltz_64:
(1, 34781), (Start: 2 @34787 has 7 MA's), (4, 34805), (5, 34808), (10, 34838), (17, 34916), (28, 35018), (30, 35030), (36, 35099), (56, 35315), (57, 35318), (58, 35321), (64, 35408), (68, 35459), (73, 35504), (76, 35531), (84, 35606), (87, 35624), (92, 35657), (100, 35702), (104, 35720), (118, 35786), (119, 35789), (126, 35828), (130, 35861), (135, 35882), (137, 35897), (140, 35939), (145, 35969), (150, 35993), (155, 36017), (157, 36023), (160, 36038), (162, 36047), (181, 36140), (186, 36161), (196, 36197), (204, 36230), (218, 36281), (224, 36311), (241, 36374), (252, 36422), (257, 36443), (261, 36461), (264, 36473), (267, 36482), (271, 36497), (276, 36518), (286, 36563), (287, 36572), (291, 36590), (299, 36641), (309, 36671), (311, 36680), (323, 36749), (331, 36806), (359, 36938), (362, 36956), (370, 37010), (371, 37013), (379, 37064), (380, 37067), (390, 37133), (394, 37145), (409, 37244), (412, 37265), (418, 37307), (423, 37397), (424, 37418), (425, 37442), (426, 37451), (427, 37472), (428, 37505), (429, 37514), (433, 37607), (435, 37652), (438, 37718), (440, 37775), (441, 37841),

Gene: Wayne_18 Start: 12693, Stop: 15248, Start Num: 11
Candidate Starts for Wayne_18:
(7, 12672), (Start: 11 @12693 has 29 MA's), (16, 12741), (22, 12822), (24, 12846), (35, 12918), (38, 12966), (39, 12981), (40, 12987), (53, 13149), (59, 13194), (62, 13245), (63, 13248), (65, 13278), (78, 13416), (95, 13539), (104, 13599), (108, 13617), (109, 13632), (115, 13683), (148, 13914), (162, 13983), (164, 14007), (167, 14025), (168, 14031), (183, 14085), (186, 14097), (192, 14118), (199, 14142), (222, 14229), (230, 14253), (231, 14259), (232, 14262), (235, 14274), (240, 14295), (241, 14298), (242, 14304), (243, 14310), (247, 14328), (248, 14331), (250, 14337), (261, 14382), (263, 14391), (269, 14409), (274, 14430), (276, 14439), (278, 14448), (285, 14481), (286, 14484), (287, 14493), (288, 14496), (297, 14547), (317, 14637), (339, 14745), (342, 14757), (346, 14778), (347, 14781), (361, 14877), (362, 14880), (369, 14934), (375, 14973), (386, 15030), (395, 15072), (403, 15120), (411, 15162), (414, 15192),

Gene: Wheelbite_63 Start: 36504, Stop: 39521, Start Num: 2
Candidate Starts for Wheelbite_63:
(Start: 2 @36504 has 7 MA's), (5, 36525), (10, 36555), (12, 36558), (21, 36663), (33, 36756), (36, 36816), (55, 37026), (56, 37032), (57, 37035), (58, 37038), (64, 37125), (68, 37176), (72, 37218), (73, 37221), (81, 37305), (84, 37323), (114, 37473), (139, 37566), (160, 37665), (179, 37761), (192, 37809), (193, 37812), (196, 37824), (201, 37845), (204, 37857), (218, 37908), (241, 38001), (243, 38016), (271, 38124), (274, 38136), (276, 38145), (283, 38175), (287, 38199), (290, 38214), (299, 38268), (311, 38307), (331, 38433), (355, 38538), (365, 38604), (371, 38640), (374, 38658), (377, 38682), (380, 38694), (382, 38703), (384, 38715), (393, 38769), (407, 38850), (409, 38871), (412, 38892), (418, 38934), (419, 38937), (424, 39045), (426, 39078), (427, 39099), (429, 39141), (430, 39147), (431, 39204), (433, 39234), (434, 39243), (436, 39342), (437, 39348), (440, 39417), (442, 39504),