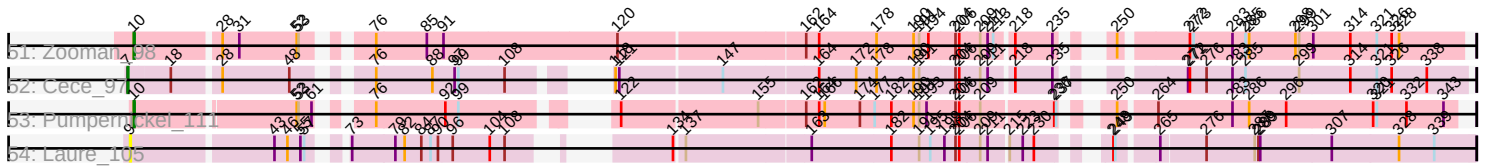


Pham 330725

[illegible]

Pham 330725



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 330725 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330725 has 89 members, 20 are drafts.

Phages represented in each track:

- Track 1 : Wheelbite_90
- Track 2 : Salgado_95, LiSara_92
- Track 3 : Shrooms_93
- Track 4 : Waltz_91
- Track 5 : ApoKipo_99
- Track 6 : Laroye_95
- Track 7 : Kovu_95
- Track 8 : Edmundo_94
- Track 9 : JayCookie_90, HumptyDumpty_90, JaNo_89, Mordred_90, Conboy_88, MoyaNatalis_89, Linus_90, RosiePosie_90, Chocolat_90, Tophat_91, Scavito_91, Kabreeze_90, Chipper1996_910
- Track 10 : ArV1_077
- Track 11 : Lymara_87
- Track 12 : Colucci_93
- Track 13 : KBurrousTX_88
- Track 14 : DrYang_86
- Track 15 : PrincessTrina_91
- Track 16 : Chubster_90
- Track 17 : EdgarPoe_89
- Track 18 : GodonK_184
- Track 19 : Phendrix_173
- Track 20 : GMA2_64
- Track 21 : Mareelih_167, Forza_170, Boopy_169, BlueNGold_166
- Track 22 : Sixama_168
- Track 23 : Rockabye_101
- Track 24 : Racecar_102, Bloom_105, Mimi_101, Talia1610_101, FrostedClock_104
- Track 25 : Chilliams_99
- Track 26 : Panchaali_92
- Track 27 : Emmetator_93, BooTeria_91, WaddleDee_88, DunneganBoMo_90, Artu_93
- Track 28 : KSunshine22_95
- Track 29 : ReginaGlobina_100, Atuin_95, LeoJr_100
- Track 30 : Ellewin_89
- Track 31 : Stewart25555_92
- Track 32 : FloraSnap32_101
- Track 33 : Phrampa_94
- Track 34 : SJReid_105

- Track 35 : GoldenEssence_87
- Track 36 : Patbob_100
- Track 37 : Kharcho_61, Ottawa_61
- Track 38 : Roberts_38, Gerri43_38, ChamoyPickle_40, AnnabelLee_38, CardboardBox_39, ChipsNGuac_38, Neuville_38
- Track 39 : Agamoto_38
- Track 40 : Ezurina_37
- Track 41 : Audell_37
- Track 42 : Makima_38
- Track 43 : Mireles_41
- Track 44 : LastNadia_40
- Track 45 : Studio_40
- Track 46 : TripleC_39
- Track 47 : TMaxx_39
- Track 48 : A3Wally_114, Dodo_116, PauloDiaboli_114
- Track 49 : Erasmago_105
- Track 50 : Big4_103
- Track 51 : Zooman_98
- Track 52 : Cece_97
- Track 53 : Pumpnickel_111
- Track 54 : Laure_105

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

The start number called the most often in the published annotations is 10, it was called in 19 of the 69 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally_114, Agamoto_38, AnnabelLee_38, Audell_37, Big4_103, CardboardBox_39, ChamoyPickle_40, ChipsNGuac_38, Dodo_116, Erasmago_105, Ezurina_37, Gerri43_38, GodonK_184, LastNadia_40, Makima_38, Mireles_41, Neuville_38, PauloDiaboli_114, Phendrix_173, Pumpnickel_111, Roberts_38, Studio_40, TMaxx_39, TripleC_39, Zooman_98,

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

•

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

- ApoKipo_99, ArV1_077, Artu_93, Atuin_95, Bloom_105, BlueNGold_166, BooTeria_91, Boopy_169, Cece_97, Chilliamps_99, Chipper1996_910, Chocolat_90, Chubster_90, Colucci_93, Conboy_88, DrYang_86, DunneganBoMo_90, EdgarPoe_89, Edmundo_94, Ellewin_89, Emmetator_93, FloraSnap32_101, Forza_170, FrostedClock_104, GMA2_64, GoldenEssence_87, HumptyDumpty_90, JaNo_89, JayCookie_90, KBurrousTX_88, KSunshine22_95, Kabreeze_90, Kharcho_61, Kovu_95, Laroye_95, Laure_105, LeoJr_100, LiSara_92, Linus_90, Lymara_87, Mareelih_167, Mimi_101, Mordred_90, MoyaNatalis_89, Ottawa_61, Panchaali_92, Patbob_100, Phrampa_94, PrincessTrina_91, Racecar_102, ReginaGlobina_100, Rockabye_101, RosiePosie_90, SJReid_105, Salgado_95, Scavito_91, Shrooms_93, Sixama_168, Stewart25555_92, Talia1610_101, Tophat_91, WaddleDee_88, Waltz_91, Wheelbite_90,

Summary by start number:

Start 2:

- Found in 2 of 89 (2.2%) of genes in pham
- Manual Annotations of this start: 2 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kharcho_61 (FM), Ottawa_61 (FM),

Start 7:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_97 (GD3),

Start 8:

- Found in 5 of 89 (5.6%) of genes in pham
- Manual Annotations of this start: 5 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_166 (DS), Boopy_169 (DS), Forza_170 (DS), Mareelih_167 (DS), Sixama_168 (DS),

Start 9:

- Found in 26 of 89 (29.2%) of genes in pham
- Manual Annotations of this start: 14 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu_93 (FC), Atuin_95 (FC), Bloom_105 (FC), BooTeria_91 (FC), Chilliams_99 (FC), DunneganBoMo_90 (FC), Ellewin_89 (FC), Emmetator_93 (FC), FloraSnap32_101 (FC), FrostedClock_104 (FC), GMA2_64 (DS), GoldenEssence_87 (FC), KSunshine22_95 (FC), Laure_105 (UNK), LeoJr_100 (FC), Mimi_101 (FC), Panchaali_92 (FC), Patbob_100 (FC), Phrampa_94 (FC), Racecar_102 (FC), ReginaGlobina_100 (FC), Rockabye_101 (FC), SJReid_105 (FC), Stewart25555_92 (FC), Talia1610_101 (FC), WaddleDee_88 (FC),

Start 10:

- Found in 25 of 89 (28.1%) of genes in pham
- Manual Annotations of this start: 19 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_114 (GD1), Agamoto_38 (FR), AnnabelLee_38 (FR), Audell_37 (FR), Big4_103 (GD2), CardboardBox_39 (FR), ChamoyPickle_40 (FR), ChipsNGuac_38 (FR), Dodo_116 (GD1), Erasmago_105 (GD2), Ezurina_37 (FR), Gerri43_38 (FR), GodonK_184 (DK), LastNadiia_40 (FR), Makima_38 (FR), Mireles_41 (FR), Neuville_38 (FR), PauloDiaboli_114 (GD1), Phendrix_173 (DK), Pumpnickel_111 (GD4), Roberts_38 (FR), Studio_40 (FR), TMaxx_39 (FR), TripleC_39 (FR), Zooman_98 (GD2),

Start 21:

- Found in 20 of 89 (22.5%) of genes in pham
- Manual Annotations of this start: 18 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_077 (AR), Chipper1996_910 (AR), Chocolat_90 (AR), Chubster_90 (AR), Colucci_93 (AR), Conboy_88 (AR), DrYang_86 (AR), EdgarPoe_89 (AR), HumptyDumpty_90 (AR), JaNo_89 (AR), JayCookie_90

(AR), Kabreeze_90 (AR), Linus_90 (AR), Lymara_87 (AR), Mordred_90 (AR), MoyaNatalis_89 (AR), PrincessTrina_91 (AR), RosiePosie_90 (AR), Scavito_91 (AR), Tophat_91 (AR),

Start 23:

- Found in 1 of 89 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KBurrousTX_88 (AR),

Start 29:

- Found in 9 of 89 (10.1%) of genes in pham
- Manual Annotations of this start: 9 of 69
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ApoKipo_99 (AL), Edmundo_94 (AL), Kovu_95 (AL), Laroye_95 (AL), LiSara_92 (AL), Salgado_95 (AL), Shrooms_93 (AL), Waltz_91 (AL), Wheelbite_90 (AL),

Summary by clusters:

There are 12 clusters represented in this pham: GD1, GD2, GD3, GD4, DK, AL, FR, FM, FC, UNK, DS, AR,

Info for manual annotations of cluster AL:

- Start number 29 was manually annotated 9 times for cluster AL.

Info for manual annotations of cluster AR:

- Start number 21 was manually annotated 18 times for cluster AR.
- Start number 23 was manually annotated 1 time for cluster AR.

Info for manual annotations of cluster DK:

- Start number 10 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 8 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster FC:

- Start number 9 was manually annotated 14 times for cluster FC.

Info for manual annotations of cluster FM:

- Start number 2 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FR:

- Start number 10 was manually annotated 11 times for cluster FR.

Info for manual annotations of cluster GD1:

- Start number 10 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 10 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 7 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

•Start number 10 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_114 Start: 79188, Stop: 77338, Start Num: 10

Candidate Starts for A3Wally_114:

(3, 79257), (5, 79251), (Start: 10 @79188 has 19 MA's), (16, 79143), (18, 79131), (37, 79005), (52, 78942), (76, 78867), (92, 78759), (98, 78741), (107, 78672), (110, 78645), (118, 78585), (147, 78420), (164, 78276), (177, 78189), (182, 78162), (190, 78126), (191, 78117), (204, 78060), (206, 78054), (211, 78009), (214, 77997), (218, 77976), (228, 77952), (235, 77916), (252, 77871), (271, 77787), (272, 77784), (273, 77778), (283, 77715), (298, 77613), (314, 77526), (321, 77484), (333, 77433),

Gene: Agamotto_38 Start: 29155, Stop: 27347, Start Num: 10

Candidate Starts for Agamotto_38:

(6, 29200), (Start: 10 @29155 has 19 MA's), (18, 29095), (28, 29032), (59, 28894), (80, 28777), (82, 28765), (99, 28681), (122, 28543), (151, 28357), (161, 28264), (163, 28243), (191, 28072), (194, 28057), (206, 28009), (229, 27940), (232, 27934), (233, 27919), (248, 27880), (251, 27871), (258, 27853), (264, 27817), (265, 27814), (267, 27796), (270, 27778), (271, 27775), (294, 27622), (300, 27589), (304, 27562), (308, 27541), (314, 27514), (332, 27424), (341, 27373),

Gene: AnnabelLee_38 Start: 26373, Stop: 24541, Start Num: 10

Candidate Starts for AnnabelLee_38:

(Start: 10 @26373 has 19 MA's), (18, 26316), (59, 26115), (82, 25980), (105, 25845), (109, 25818), (122, 25761), (124, 25746), (131, 25692), (147, 25596), (149, 25590), (151, 25575), (157, 25530), (161, 25482), (163, 25461), (165, 25443), (171, 25392), (189, 25299), (191, 25287), (206, 25224), (221, 25152), (239, 25092), (248, 25071), (265, 25005), (267, 24987), (270, 24969), (271, 24966), (278, 24930), (292, 24822), (294, 24813), (304, 24753), (314, 24705),

Gene: ApoKipo_99 Start: 56676, Stop: 58337, Start Num: 29

Candidate Starts for ApoKipo_99:

(Start: 29 @56676 has 9 MA's), (42, 56736), (58, 56796), (64, 56823), (93, 56997), (97, 57009), (116, 57129), (123, 57165), (128, 57189), (135, 57234), (141, 57270), (142, 57276), (153, 57324), (158, 57366), (169, 57486), (180, 57549), (185, 57582), (192, 57612), (196, 57630), (197, 57633), (205, 57666), (208, 57699), (220, 57756), (240, 57825), (257, 57882), (270, 57954), (275, 57981), (280, 58008), (291, 58083), (295, 58110), (303, 58158), (310, 58191), (312, 58200), (313, 58203), (318, 58236), (331, 58290), (334, 58302), (335, 58305), (336, 58311),

Gene: ArV1_077 Start: 57342, Stop: 59084, Start Num: 21

Candidate Starts for ArV1_077:

(Start: 21 @57342 has 18 MA's), (25, 57363), (27, 57369), (39, 57459), (51, 57510), (56, 57519), (63, 57546), (67, 57558), (83, 57660), (95, 57732), (98, 57741), (103, 57783), (111, 57837), (112, 57843), (113, 57846), (117, 57861), (133, 57963), (138, 57981), (144, 58020), (146, 58026), (148, 58041), (154, 58092), (157, 58104), (164, 58185), (181, 58290), (187, 58317), (188, 58320), (202, 58380), (211, 58437), (224, 58482), (231, 58500), (244, 58548), (246, 58560), (249, 58572), (256, 58593), (261, 58617), (265, 58641), (267, 58659), (282, 58743), (284, 58767), (289, 58794), (290, 58800), (294, 58830), (296, 58836), (315, 58947), (316, 58953), (325, 58995), (340, 59076),

Gene: Artu_93 Start: 77224, Stop: 79068, Start Num: 9

Candidate Starts for Artu_93:

(Start: 9 @77224 has 14 MA's), (55, 77497), (82, 77605), (94, 77671), (105, 77740), (106, 77749), (122, 77824), (166, 78133), (170, 78178), (179, 78217), (182, 78238), (191, 78283), (204, 78340), (206, 78346), (209, 78379), (211, 78391), (214, 78403), (248, 78520), (250, 78526), (270, 78616), (276, 78649), (288, 78733), (303, 78826), (307, 78850), (340, 79018), (341, 79021),

Gene: Atuin_95 Start: 80621, Stop: 82477, Start Num: 9

Candidate Starts for Atuin_95:

(Start: 9 @80621 has 14 MA's), (55, 80894), (82, 80999), (103, 81122), (105, 81134), (106, 81143), (125, 81239), (137, 81314), (147, 81374), (166, 81527), (170, 81572), (182, 81632), (191, 81677), (204, 81734), (206, 81740), (209, 81773), (211, 81785), (214, 81797), (248, 81914), (249, 81917), (265, 81974), (270, 82010), (273, 82022), (276, 82043), (288, 82127), (303, 82220), (307, 82244), (340, 82412), (341, 82415),

Gene: Audell_37 Start: 28742, Stop: 26934, Start Num: 10

Candidate Starts for Audell_37:

(Start: 10 @28742 has 19 MA's), (18, 28682), (28, 28619), (57, 28487), (59, 28481), (80, 28364), (82, 28352), (99, 28268), (122, 28130), (151, 27944), (161, 27851), (163, 27830), (164, 27818), (191, 27659), (194, 27644), (201, 27614), (206, 27596), (229, 27527), (232, 27521), (233, 27506), (242, 27479), (248, 27467), (251, 27458), (258, 27440), (264, 27404), (265, 27401), (267, 27383), (270, 27365), (271, 27362), (294, 27209), (300, 27176), (304, 27149), (308, 27128), (314, 27101), (332, 27011), (341, 26960),

Gene: Big4_103 Start: 78367, Stop: 76427, Start Num: 10

Candidate Starts for Big4_103:

(Start: 10 @78367 has 19 MA's), (31, 78214), (52, 78121), (76, 78046), (85, 77965), (91, 77941), (120, 77665), (164, 77359), (178, 77269), (190, 77209), (191, 77200), (204, 77143), (206, 77137), (209, 77104), (211, 77092), (213, 77083), (218, 77059), (235, 76999), (272, 76867), (273, 76861), (283, 76798), (285, 76777), (286, 76771), (298, 76696), (299, 76690), (301, 76669), (314, 76609), (321, 76567), (326, 76543), (328, 76531),

Gene: Bloom_105 Start: 80738, Stop: 82576, Start Num: 9

Candidate Starts for Bloom_105:

(Start: 9 @80738 has 14 MA's), (20, 80819), (32, 80897), (55, 80993), (76, 81053), (79, 81083), (102, 81203), (108, 81254), (121, 81314), (168, 81653), (179, 81710), (182, 81731), (191, 81776), (204, 81833), (206, 81839), (209, 81872), (211, 81884), (214, 81896), (227, 81941), (235, 81980), (258, 82037), (259, 82043), (265, 82076), (276, 82145), (288, 82229), (307, 82346), (342, 82520), (344, 82562),

Gene: BlueNGold_166 Start: 96830, Stop: 94920, Start Num: 8

Candidate Starts for BlueNGold_166:

(Start: 8 @96830 has 5 MA's), (40, 96626), (52, 96578), (68, 96533), (77, 96452), (78, 96440), (97, 96335), (102, 96308), (118, 96203), (124, 96179), (152, 96014), (190, 95747), (191, 95738), (197, 95711), (209, 95642), (265, 95393), (274, 95327), (279, 95303), (299, 95168), (309, 95108), (323, 95036),

Gene: BooTeria_91 Start: 77289, Stop: 79133, Start Num: 9

Candidate Starts for BooTeria_91:

(Start: 9 @77289 has 14 MA's), (55, 77562), (82, 77670), (94, 77736), (105, 77805), (106, 77814), (122, 77889), (166, 78198), (170, 78243), (179, 78282), (182, 78303), (191, 78348), (204, 78405), (206, 78411), (209, 78444), (211, 78456), (214, 78468), (248, 78585), (250, 78591), (270, 78681), (276, 78714), (288, 78798), (303, 78891), (307, 78915), (340, 79083), (341, 79086),

Gene: Boopy_169 Start: 96841, Stop: 94931, Start Num: 8

Candidate Starts for Boopy_169:

(Start: 8 @96841 has 5 MA's), (40, 96637), (52, 96589), (68, 96544), (77, 96463), (78, 96451), (97, 96346), (102, 96319), (118, 96214), (124, 96190), (152, 96025), (190, 95758), (191, 95749), (197, 95722), (209, 95653), (265, 95404), (274, 95338), (279, 95314), (299, 95179), (309, 95119), (323, 95047),

Gene: CardboardBox_39 Start: 26376, Stop: 24544, Start Num: 10

Candidate Starts for CardboardBox_39:

(Start: 10 @26376 has 19 MA's), (18, 26319), (59, 26118), (82, 25983), (105, 25848), (109, 25821), (122, 25764), (124, 25749), (131, 25695), (147, 25599), (149, 25593), (151, 25578), (157, 25533), (161, 25485), (163, 25464), (165, 25446), (171, 25395), (189, 25302), (191, 25290), (206, 25227), (221, 25155), (239, 25095), (248, 25074), (265, 25008), (267, 24990), (270, 24972), (271, 24969), (278, 24933), (292, 24825), (294, 24816), (304, 24756), (314, 24708),

Gene: Cece_97 Start: 81318, Stop: 79462, Start Num: 7

Candidate Starts for Cece_97:

(Start: 7 @81318 has 1 MA's), (18, 81255), (28, 81186), (48, 81078), (76, 80991), (88, 80901), (97, 80868), (99, 80862), (108, 80790), (118, 80709), (121, 80703), (147, 80544), (164, 80400), (172, 80340), (178, 80310), (190, 80250), (191, 80241), (204, 80184), (206, 80178), (209, 80145), (211, 80133), (218, 80100), (235, 80040), (271, 79911), (272, 79908), (276, 79881), (283, 79839), (285, 79818), (299, 79731), (314, 79650), (321, 79608), (326, 79584), (338, 79527),

Gene: ChamoyPickle_40 Start: 26916, Stop: 25084, Start Num: 10

Candidate Starts for ChamoyPickle_40:

(Start: 10 @26916 has 19 MA's), (18, 26859), (59, 26658), (82, 26523), (105, 26388), (109, 26361), (122, 26304), (124, 26289), (131, 26235), (147, 26139), (149, 26133), (151, 26118), (157, 26073), (161, 26025), (163, 26004), (165, 25986), (171, 25935), (189, 25842), (191, 25830), (206, 25767), (221, 25695), (239, 25635), (248, 25614), (265, 25548), (267, 25530), (270, 25512), (271, 25509), (278, 25473), (292, 25365), (294, 25356), (304, 25296), (314, 25248),

Gene: Chilliams_99 Start: 73536, Stop: 75392, Start Num: 9

Candidate Starts for Chilliams_99:

(Start: 9 @73536 has 14 MA's), (43, 73752), (55, 73794), (57, 73800), (73, 73833), (79, 73902), (82, 73917), (85, 73953), (96, 73992), (108, 74073), (121, 74133), (142, 74268), (182, 74550), (191, 74595), (206, 74658), (209, 74691), (211, 74703), (223, 74751), (230, 74769), (241, 74814), (248, 74835), (258, 74856), (265, 74895), (269, 74928), (276, 74964), (279, 74979), (283, 75006), (287, 75042), (288, 75048), (307, 75165), (314, 75195), (341, 75336),

Gene: Chipper1996_910 Start: 59054, Stop: 60799, Start Num: 21

Candidate Starts for Chipper1996_910:

(Start: 21 @59054 has 18 MA's), (25, 59075), (36, 59153), (41, 59177), (51, 59222), (62, 59246), (71, 59285), (95, 59444), (98, 59453), (103, 59495), (106, 59516), (111, 59549), (112, 59555), (113, 59558), (117, 59573), (119, 59588), (133, 59675), (136, 59687), (138, 59693), (143, 59729), (148, 59753), (150, 59765), (164, 59897), (178, 59981), (181, 60002), (184, 60014), (187, 60029), (188, 60032), (193, 60056), (198, 60080), (202, 60092), (211, 60149), (224, 60194), (244, 60260), (246, 60272), (248, 60281), (256, 60305), (257, 60308), (263, 60344), (264, 60350), (268, 60374), (282, 60455), (283, 60461), (284, 60479), (289, 60506), (290, 60512), (294, 60542), (296, 60548), (305, 60608), (315, 60659), (316, 60665), (324, 60704),

Gene: ChipsNGuac_38 Start: 26376, Stop: 24544, Start Num: 10

Candidate Starts for ChipsNGuac_38:

(Start: 10 @26376 has 19 MA's), (18, 26319), (59, 26118), (82, 25983), (105, 25848), (109, 25821), (122, 25764), (124, 25749), (131, 25695), (147, 25599), (149, 25593), (151, 25578), (157, 25533), (161, 25485), (163, 25464), (165, 25446), (171, 25395), (189, 25302), (191, 25290), (206, 25227), (221, 25155), (239, 25095), (248, 25074), (265, 25008), (267, 24990), (270, 24972), (271, 24969), (278, 24933), (292, 24825), (294, 24816), (304, 24756), (314, 24708),

Gene: Chocolat_90 Start: 58761, Stop: 60506, Start Num: 21

Candidate Starts for Chocolat_90:

(Start: 21 @58761 has 18 MA's), (25, 58782), (36, 58860), (41, 58884), (51, 58929), (62, 58953), (71, 58992), (95, 59151), (98, 59160), (103, 59202), (106, 59223), (111, 59256), (112, 59262), (113, 59265), (117, 59280), (119, 59295), (133, 59382), (136, 59394), (138, 59400), (143, 59436), (148, 59460), (150, 59472), (164, 59604), (178, 59688), (181, 59709), (184, 59721), (187, 59736), (188, 59739), (193, 59763), (198, 59787), (202, 59799), (211, 59856), (224, 59901), (244, 59967), (246, 59979), (248, 59988), (256, 60012), (257, 60015), (263, 60051), (264, 60057), (268, 60081), (282, 60162), (283, 60168), (284, 60186), (289, 60213), (290, 60219), (294, 60249), (296, 60255), (305, 60315), (315, 60366), (316, 60372), (324, 60411),

Gene: Chubster_90 Start: 58968, Stop: 60713, Start Num: 21

Candidate Starts for Chubster_90:

(Start: 21 @58968 has 18 MA's), (25, 58989), (36, 59067), (41, 59091), (51, 59136), (62, 59160), (71, 59199), (95, 59358), (98, 59367), (103, 59409), (106, 59430), (111, 59463), (112, 59469), (113, 59472), (117, 59487), (119, 59502), (133, 59589), (136, 59601), (138, 59607), (143, 59643), (148, 59667), (150, 59679), (164, 59811), (178, 59895), (181, 59916), (184, 59928), (187, 59943), (188, 59946), (193, 59970), (198, 59994), (200, 60000), (202, 60006), (211, 60063), (224, 60108), (244, 60174), (246, 60186), (248, 60195), (256, 60219), (257, 60222), (263, 60258), (264, 60264), (268, 60288), (282, 60369), (283, 60375), (284, 60393), (289, 60420), (290, 60426), (294, 60456), (296, 60462), (305, 60522), (315, 60573), (316, 60579), (324, 60618),

Gene: Colucci_93 Start: 59340, Stop: 61085, Start Num: 21

Candidate Starts for Colucci_93:

(4, 59187), (Start: 21 @59340 has 18 MA's), (25, 59361), (27, 59367), (36, 59439), (41, 59463), (51, 59508), (71, 59571), (95, 59730), (98, 59739), (103, 59781), (106, 59802), (112, 59841), (113, 59844), (117, 59859), (119, 59874), (133, 59961), (136, 59973), (138, 59979), (148, 60039), (150, 60051), (164, 60183), (167, 60207), (178, 60267), (181, 60288), (184, 60300), (187, 60315), (188, 60318), (193, 60342), (198, 60366), (202, 60378), (203, 60384), (207, 60414), (211, 60435), (224, 60480), (248, 60567), (256, 60591), (263, 60630), (264, 60636), (268, 60660), (282, 60741), (284, 60765), (290, 60798), (294, 60828), (296, 60834), (305, 60894), (315, 60945), (316, 60951), (324, 60990),

Gene: Conboy_88 Start: 58510, Stop: 60255, Start Num: 21

Candidate Starts for Conboy_88:

(Start: 21 @58510 has 18 MA's), (25, 58531), (36, 58609), (41, 58633), (51, 58678), (62, 58702), (71, 58741), (95, 58900), (98, 58909), (103, 58951), (106, 58972), (111, 59005), (112, 59011), (113, 59014), (117, 59029), (119, 59044), (133, 59131), (136, 59143), (138, 59149), (143, 59185), (148, 59209), (150, 59221), (164, 59353), (178, 59437), (181, 59458), (184, 59470), (187, 59485), (188, 59488), (193, 59512), (198, 59536), (202, 59548), (211, 59605), (224, 59650), (244, 59716), (246, 59728), (248, 59737), (256, 59761), (257, 59764), (263, 59800), (264, 59806), (268, 59830), (282, 59911), (283, 59917), (284, 59935), (289, 59962), (290, 59968), (294, 59998), (296, 60004), (305, 60064), (315, 60115), (316, 60121), (324, 60160),

Gene: Dodo_116 Start: 79498, Stop: 77648, Start Num: 10

Candidate Starts for Dodo_116:

(3, 79567), (5, 79561), (Start: 10 @79498 has 19 MA's), (16, 79453), (18, 79441), (37, 79315), (52, 79252), (76, 79177), (92, 79069), (98, 79051), (107, 78982), (110, 78955), (118, 78895), (147, 78730),

(164, 78586), (177, 78499), (182, 78472), (190, 78436), (191, 78427), (204, 78370), (206, 78364), (211, 78319), (214, 78307), (218, 78286), (228, 78262), (235, 78226), (252, 78181), (271, 78097), (272, 78094), (273, 78088), (283, 78025), (298, 77923), (314, 77836), (321, 77794), (333, 77743),

Gene: DrYang_86 Start: 58563, Stop: 60308, Start Num: 21

Candidate Starts for DrYang_86:

(4, 58410), (Start: 21 @58563 has 18 MA's), (25, 58584), (33, 58647), (36, 58662), (39, 58680), (45, 58716), (51, 58731), (54, 58737), (60, 58749), (62, 58755), (71, 58794), (83, 58881), (95, 58953), (98, 58962), (100, 58980), (106, 59025), (111, 59058), (112, 59064), (113, 59067), (126, 59133), (133, 59184), (136, 59196), (138, 59202), (148, 59262), (150, 59274), (184, 59523), (188, 59541), (200, 59595), (202, 59601), (203, 59607), (211, 59658), (224, 59703), (244, 59769), (246, 59781), (248, 59790), (254, 59811), (261, 59838), (265, 59862), (267, 59880), (281, 59955), (282, 59964), (283, 59970), (284, 59988), (289, 60015), (290, 60021), (294, 60051), (296, 60057), (305, 60117), (307, 60129), (316, 60174), (324, 60213),

Gene: DunneganBoMo_90 Start: 76558, Stop: 78402, Start Num: 9

Candidate Starts for DunneganBoMo_90:

(Start: 9 @76558 has 14 MA's), (55, 76831), (82, 76939), (94, 77005), (105, 77074), (106, 77083), (122, 77158), (166, 77467), (170, 77512), (179, 77551), (182, 77572), (191, 77617), (204, 77674), (206, 77680), (209, 77713), (211, 77725), (214, 77737), (248, 77854), (250, 77860), (270, 77950), (276, 77983), (288, 78067), (303, 78160), (307, 78184), (340, 78352), (341, 78355),

Gene: EdgarPoe_89 Start: 58918, Stop: 60663, Start Num: 21

Candidate Starts for EdgarPoe_89:

(Start: 21 @58918 has 18 MA's), (25, 58939), (36, 59017), (41, 59041), (51, 59086), (62, 59110), (71, 59149), (95, 59308), (98, 59317), (106, 59380), (111, 59413), (112, 59419), (113, 59422), (117, 59437), (119, 59452), (133, 59539), (136, 59551), (138, 59557), (143, 59593), (148, 59617), (150, 59629), (164, 59761), (178, 59845), (184, 59878), (187, 59893), (188, 59896), (193, 59920), (198, 59944), (200, 59950), (202, 59956), (211, 60013), (224, 60058), (244, 60124), (246, 60136), (248, 60145), (256, 60169), (257, 60172), (263, 60208), (264, 60214), (268, 60238), (282, 60319), (283, 60325), (284, 60343), (289, 60370), (290, 60376), (294, 60406), (296, 60412), (305, 60472), (315, 60523), (316, 60529), (324, 60568),

Gene: Edmundo_94 Start: 55295, Stop: 56959, Start Num: 29

Candidate Starts for Edmundo_94:

(Start: 29 @55295 has 9 MA's), (42, 55358), (44, 55367), (67, 55454), (75, 55499), (93, 55619), (109, 55712), (113, 55736), (116, 55748), (126, 55802), (135, 55853), (141, 55889), (147, 55916), (151, 55937), (153, 55943), (158, 55985), (169, 56102), (183, 56180), (185, 56198), (197, 56249), (205, 56282), (208, 56315), (220, 56372), (232, 56399), (240, 56441), (262, 56522), (267, 56552), (270, 56570), (275, 56597), (280, 56624), (291, 56699), (295, 56726), (297, 56738), (310, 56807), (312, 56816), (313, 56819), (318, 56852), (327, 56888), (331, 56903), (335, 56918), (337, 56939),

Gene: Ellewin_89 Start: 75969, Stop: 77813, Start Num: 9

Candidate Starts for Ellewin_89:

(Start: 9 @75969 has 14 MA's), (55, 76242), (82, 76350), (94, 76416), (105, 76485), (106, 76494), (122, 76569), (137, 76665), (166, 76878), (170, 76923), (179, 76962), (182, 76983), (191, 77028), (206, 77091), (209, 77124), (211, 77136), (214, 77148), (248, 77265), (250, 77271), (266, 77334), (273, 77373), (276, 77394), (288, 77478), (303, 77571), (307, 77595), (340, 77763), (341, 77766),

Gene: Emmetator_93 Start: 76561, Stop: 78405, Start Num: 9

Candidate Starts for Emmetator_93:

(Start: 9 @76561 has 14 MA's), (55, 76834), (82, 76942), (94, 77008), (105, 77077), (106, 77086), (122, 77161), (166, 77470), (170, 77515), (179, 77554), (182, 77575), (191, 77620), (204, 77677),

(206, 77683), (209, 77716), (211, 77728), (214, 77740), (248, 77857), (250, 77863), (270, 77953), (276, 77986), (288, 78070), (303, 78163), (307, 78187), (340, 78355), (341, 78358),

Gene: Erasmago_105 Start: 76053, Stop: 74113, Start Num: 10

Candidate Starts for Erasmago_105:

(Start: 10 @76053 has 19 MA's), (28, 75927), (52, 75807), (76, 75732), (85, 75651), (89, 75639), (97, 75609), (147, 75189), (164, 75045), (175, 74976), (178, 74955), (190, 74895), (191, 74886), (194, 74871), (206, 74823), (209, 74790), (211, 74778), (218, 74745), (235, 74685), (240, 74670), (252, 74640), (272, 74553), (273, 74547), (283, 74484), (286, 74457), (299, 74376), (302, 74352), (314, 74295), (321, 74253), (328, 74217),

Gene: Ezurina_37 Start: 27463, Stop: 25631, Start Num: 10

Candidate Starts for Ezurina_37:

(Start: 10 @27463 has 19 MA's), (18, 27406), (59, 27205), (82, 27070), (109, 26908), (122, 26851), (124, 26836), (147, 26686), (149, 26680), (151, 26665), (157, 26620), (161, 26572), (163, 26551), (165, 26533), (171, 26482), (191, 26377), (206, 26314), (221, 26242), (248, 26161), (259, 26128), (265, 26095), (267, 26077), (270, 26059), (271, 26056), (278, 26020), (292, 25912), (294, 25903), (304, 25843), (314, 25795), (322, 25747),

Gene: FloraSnap32_101 Start: 79635, Stop: 81473, Start Num: 9

Candidate Starts for FloraSnap32_101:

(Start: 9 @79635 has 14 MA's), (32, 79794), (55, 79890), (76, 79950), (79, 79980), (102, 80100), (108, 80151), (121, 80211), (179, 80607), (182, 80628), (191, 80673), (204, 80730), (206, 80736), (209, 80769), (211, 80781), (214, 80793), (215, 80808), (227, 80838), (235, 80877), (258, 80934), (259, 80940), (265, 80973), (276, 81042), (288, 81126), (300, 81198), (307, 81243), (342, 81417), (344, 81459),

Gene: Forza_170 Start: 96758, Stop: 94848, Start Num: 8

Candidate Starts for Forza_170:

(Start: 8 @96758 has 5 MA's), (40, 96554), (52, 96506), (68, 96461), (77, 96380), (78, 96368), (97, 96263), (102, 96236), (118, 96131), (124, 96107), (152, 95942), (190, 95675), (191, 95666), (197, 95639), (209, 95570), (265, 95321), (274, 95255), (279, 95231), (299, 95096), (309, 95036), (323, 94964),

Gene: FrostedClock_104 Start: 80935, Stop: 82773, Start Num: 9

Candidate Starts for FrostedClock_104:

(Start: 9 @80935 has 14 MA's), (20, 81016), (32, 81094), (55, 81190), (76, 81250), (79, 81280), (102, 81400), (108, 81451), (121, 81511), (168, 81850), (179, 81907), (182, 81928), (191, 81973), (204, 82030), (206, 82036), (209, 82069), (211, 82081), (214, 82093), (227, 82138), (235, 82177), (258, 82234), (259, 82240), (265, 82273), (276, 82342), (288, 82426), (307, 82543), (342, 82717), (344, 82759),

Gene: GMA2_64 Start: 67776, Stop: 65812, Start Num: 9

Candidate Starts for GMA2_64:

(Start: 9 @67776 has 14 MA's), (28, 67644), (77, 67386), (97, 67269), (99, 67263), (102, 67242), (107, 67197), (118, 67137), (124, 67113), (129, 67077), (140, 67011), (147, 66972), (155, 66918), (161, 66864), (189, 66684), (191, 66672), (209, 66576), (212, 66558), (225, 66504), (253, 66342), (279, 66198), (293, 66093), (303, 66036), (309, 66003), (338, 65859),

Gene: Gerri43_38 Start: 26376, Stop: 24544, Start Num: 10

Candidate Starts for Gerri43_38:

(Start: 10 @26376 has 19 MA's), (18, 26319), (59, 26118), (82, 25983), (105, 25848), (109, 25821), (122, 25764), (124, 25749), (131, 25695), (147, 25599), (149, 25593), (151, 25578), (157, 25533),

(161, 25485), (163, 25464), (165, 25446), (171, 25395), (189, 25302), (191, 25290), (206, 25227), (221, 25155), (239, 25095), (248, 25074), (265, 25008), (267, 24990), (270, 24972), (271, 24969), (278, 24933), (292, 24825), (294, 24816), (304, 24756), (314, 24708),

Gene: GodonK_184 Start: 93693, Stop: 91774, Start Num: 10

Candidate Starts for GodonK_184:

(Start: 10 @93693 has 19 MA's), (15, 93651), (32, 93537), (46, 93462), (70, 93393), (77, 93324), (124, 93051), (127, 93033), (130, 93009), (137, 92970), (162, 92790), (173, 92706), (177, 92682), (189, 92622), (191, 92610), (197, 92583), (209, 92514), (210, 92511), (255, 92295), (259, 92277), (260, 92271), (269, 92205), (277, 92166), (279, 92154), (283, 92127), (294, 92046), (300, 92013), (303, 91992), (309, 91959), (319, 91908), (323, 91890),

Gene: GoldenEssence_87 Start: 74530, Stop: 76368, Start Num: 9

Candidate Starts for GoldenEssence_87:

(Start: 9 @74530 has 14 MA's), (32, 74689), (55, 74785), (76, 74845), (79, 74875), (96, 74965), (102, 74995), (108, 75046), (121, 75106), (179, 75502), (182, 75523), (191, 75568), (204, 75625), (206, 75631), (209, 75664), (211, 75676), (214, 75688), (215, 75703), (227, 75733), (235, 75772), (258, 75829), (259, 75835), (265, 75868), (276, 75937), (288, 76021), (307, 76138), (342, 76312), (344, 76354),

Gene: HumptyDumpty_90 Start: 58721, Stop: 60466, Start Num: 21

Candidate Starts for HumptyDumpty_90:

(Start: 21 @58721 has 18 MA's), (25, 58742), (36, 58820), (41, 58844), (51, 58889), (62, 58913), (71, 58952), (95, 59111), (98, 59120), (103, 59162), (106, 59183), (111, 59216), (112, 59222), (113, 59225), (117, 59240), (119, 59255), (133, 59342), (136, 59354), (138, 59360), (143, 59396), (148, 59420), (150, 59432), (164, 59564), (178, 59648), (181, 59669), (184, 59681), (187, 59696), (188, 59699), (193, 59723), (198, 59747), (202, 59759), (211, 59816), (224, 59861), (244, 59927), (246, 59939), (248, 59948), (256, 59972), (257, 59975), (263, 60011), (264, 60017), (268, 60041), (282, 60122), (283, 60128), (284, 60146), (289, 60173), (290, 60179), (294, 60209), (296, 60215), (305, 60275), (315, 60326), (316, 60332), (324, 60371),

Gene: JaNo_89 Start: 58692, Stop: 60437, Start Num: 21

Candidate Starts for JaNo_89:

(Start: 21 @58692 has 18 MA's), (25, 58713), (36, 58791), (41, 58815), (51, 58860), (62, 58884), (71, 58923), (95, 59082), (98, 59091), (103, 59133), (106, 59154), (111, 59187), (112, 59193), (113, 59196), (117, 59211), (119, 59226), (133, 59313), (136, 59325), (138, 59331), (143, 59367), (148, 59391), (150, 59403), (164, 59535), (178, 59619), (181, 59640), (184, 59652), (187, 59667), (188, 59670), (193, 59694), (198, 59718), (202, 59730), (211, 59787), (224, 59832), (244, 59898), (246, 59910), (248, 59919), (256, 59943), (257, 59946), (263, 59982), (264, 59988), (268, 60012), (282, 60093), (283, 60099), (284, 60117), (289, 60144), (290, 60150), (294, 60180), (296, 60186), (305, 60246), (315, 60297), (316, 60303), (324, 60342),

Gene: JayCookie_90 Start: 59254, Stop: 60999, Start Num: 21

Candidate Starts for JayCookie_90:

(Start: 21 @59254 has 18 MA's), (25, 59275), (36, 59353), (41, 59377), (51, 59422), (62, 59446), (71, 59485), (95, 59644), (98, 59653), (103, 59695), (106, 59716), (111, 59749), (112, 59755), (113, 59758), (117, 59773), (119, 59788), (133, 59875), (136, 59887), (138, 59893), (143, 59929), (148, 59953), (150, 59965), (164, 60097), (178, 60181), (181, 60202), (184, 60214), (187, 60229), (188, 60232), (193, 60256), (198, 60280), (202, 60292), (211, 60349), (224, 60394), (244, 60460), (246, 60472), (248, 60481), (256, 60505), (257, 60508), (263, 60544), (264, 60550), (268, 60574), (282, 60655), (283, 60661), (284, 60679), (289, 60706), (290, 60712), (294, 60742), (296, 60748), (305, 60808), (315, 60859), (316, 60865), (324, 60904),

Gene: KBurrousTX_88 Start: 60191, Stop: 61936, Start Num: 23

Candidate Starts for KBurrousTX_88:

(4, 60035), (Start: 23 @60191 has 1 MA's), (34, 60278), (36, 60287), (38, 60299), (50, 60353), (62, 60380), (67, 60404), (81, 60503), (83, 60506), (94, 60572), (95, 60578), (100, 60605), (103, 60629), (111, 60683), (112, 60689), (133, 60809), (136, 60821), (138, 60827), (143, 60863), (148, 60887), (150, 60899), (154, 60938), (188, 61166), (198, 61214), (200, 61220), (202, 61226), (203, 61232), (211, 61283), (224, 61328), (246, 61406), (247, 61412), (256, 61439), (261, 61463), (265, 61487), (268, 61508), (282, 61592), (284, 61616), (287, 61634), (289, 61643), (290, 61649), (294, 61679), (296, 61685), (307, 61757), (315, 61796), (316, 61802), (324, 61841), (338, 61910),

Gene: KSunshine22_95 Start: 77618, Stop: 79462, Start Num: 9

Candidate Starts for KSunshine22_95:

(Start: 9 @77618 has 14 MA's), (55, 77891), (82, 77999), (94, 78065), (105, 78134), (106, 78143), (122, 78218), (166, 78527), (170, 78572), (182, 78632), (191, 78677), (204, 78734), (206, 78740), (209, 78773), (211, 78785), (214, 78797), (248, 78914), (250, 78920), (266, 78983), (273, 79022), (276, 79043), (288, 79127), (303, 79220), (307, 79244), (340, 79412), (341, 79415),

Gene: Kabreeze_90 Start: 58778, Stop: 60523, Start Num: 21

Candidate Starts for Kabreeze_90:

(Start: 21 @58778 has 18 MA's), (25, 58799), (36, 58877), (41, 58901), (51, 58946), (62, 58970), (71, 59009), (95, 59168), (98, 59177), (103, 59219), (106, 59240), (111, 59273), (112, 59279), (113, 59282), (117, 59297), (119, 59312), (133, 59399), (136, 59411), (138, 59417), (143, 59453), (148, 59477), (150, 59489), (164, 59621), (178, 59705), (181, 59726), (184, 59738), (187, 59753), (188, 59756), (193, 59780), (198, 59804), (202, 59816), (211, 59873), (224, 59918), (244, 59984), (246, 59996), (248, 60005), (256, 60029), (257, 60032), (263, 60068), (264, 60074), (268, 60098), (282, 60179), (283, 60185), (284, 60203), (289, 60230), (290, 60236), (294, 60266), (296, 60272), (305, 60332), (315, 60383), (316, 60389), (324, 60428),

Gene: Kharcho_61 Start: 33998, Stop: 35899, Start Num: 2

Candidate Starts for Kharcho_61:

(1, 33905), (Start: 2 @33998 has 2 MA's), (11, 34085), (19, 34139), (26, 34190), (30, 34238), (35, 34262), (67, 34388), (69, 34397), (101, 34583), (106, 34625), (132, 34772), (138, 34793), (148, 34850), (153, 34874), (158, 34916), (160, 34952), (176, 35090), (197, 35192), (222, 35318), (232, 35342), (240, 35384), (295, 35669), (306, 35732), (313, 35762), (330, 35843), (334, 35858),

Gene: Kovu_95 Start: 56142, Stop: 57803, Start Num: 29

Candidate Starts for Kovu_95:

(13, 56019), (17, 56058), (Start: 29 @56142 has 9 MA's), (42, 56202), (64, 56289), (65, 56292), (93, 56463), (97, 56475), (116, 56595), (123, 56631), (128, 56655), (132, 56688), (135, 56700), (141, 56736), (142, 56742), (153, 56790), (158, 56832), (169, 56952), (180, 57015), (185, 57048), (192, 57078), (197, 57099), (205, 57132), (208, 57165), (220, 57222), (232, 57249), (240, 57291), (257, 57348), (262, 57372), (267, 57402), (270, 57420), (275, 57447), (280, 57474), (291, 57549), (295, 57576), (303, 57624), (305, 57636), (310, 57657), (312, 57666), (313, 57669), (317, 57696), (318, 57702), (325, 57729), (331, 57756), (334, 57768), (335, 57771), (336, 57777),

Gene: Laroye_95 Start: 55108, Stop: 56772, Start Num: 29

Candidate Starts for Laroye_95:

(Start: 29 @55108 has 9 MA's), (42, 55171), (58, 55231), (67, 55267), (75, 55312), (93, 55432), (109, 55525), (113, 55549), (116, 55561), (126, 55615), (135, 55666), (141, 55702), (147, 55729), (153, 55756), (158, 55798), (169, 55915), (183, 55993), (185, 56011), (197, 56062), (205, 56095), (208, 56128), (220, 56185), (232, 56212), (240, 56254), (257, 56311), (262, 56335), (267, 56365), (270, 56383), (275, 56410), (291, 56512), (295, 56539), (297, 56551), (310, 56620), (312, 56629), (313, 56632), (317, 56659), (318, 56665), (327, 56701), (331, 56716), (335, 56731), (337, 56752),

Gene: LastNadiia_40 Start: 28701, Stop: 26893, Start Num: 10

Candidate Starts for LastNadiia_40:

(Start: 10 @28701 has 19 MA's), (18, 28641), (59, 28440), (80, 28323), (82, 28311), (99, 28227), (122, 28089), (151, 27903), (161, 27810), (163, 27789), (164, 27777), (191, 27618), (194, 27603), (206, 27555), (229, 27486), (232, 27480), (233, 27465), (248, 27426), (251, 27417), (264, 27363), (265, 27360), (267, 27342), (270, 27324), (271, 27321), (294, 27168), (300, 27135), (304, 27108), (308, 27087), (314, 27060), (332, 26970), (341, 26919),

Gene: Laure_105 Start: 73569, Stop: 75428, Start Num: 9

Candidate Starts for Laure_105:

(Start: 9 @73569 has 14 MA's), (43, 73788), (46, 73809), (55, 73830), (57, 73836), (73, 73869), (79, 73938), (82, 73953), (84, 73980), (87, 73995), (90, 74007), (96, 74028), (104, 74085), (108, 74109), (134, 74256), (137, 74268), (163, 74460), (182, 74586), (191, 74631), (195, 74649), (199, 74670), (204, 74688), (206, 74694), (209, 74727), (211, 74739), (215, 74766), (223, 74787), (230, 74805), (248, 74871), (249, 74874), (265, 74931), (276, 75000), (287, 75078), (288, 75084), (289, 75087), (307, 75201), (328, 75309), (339, 75366),

Gene: LeoJr_100 Start: 80857, Stop: 82713, Start Num: 9

Candidate Starts for LeoJr_100:

(Start: 9 @80857 has 14 MA's), (55, 81130), (82, 81235), (103, 81358), (105, 81370), (106, 81379), (125, 81475), (137, 81550), (147, 81610), (166, 81763), (170, 81808), (182, 81868), (191, 81913), (204, 81970), (206, 81976), (209, 82009), (211, 82021), (214, 82033), (248, 82150), (249, 82153), (265, 82210), (270, 82246), (273, 82258), (276, 82279), (288, 82363), (303, 82456), (307, 82480), (340, 82648), (341, 82651),

Gene: LiSara_92 Start: 55240, Stop: 56904, Start Num: 29

Candidate Starts for LiSara_92:

(Start: 29 @55240 has 9 MA's), (42, 55303), (58, 55363), (67, 55399), (75, 55444), (93, 55564), (109, 55657), (113, 55681), (116, 55693), (126, 55747), (135, 55798), (141, 55834), (147, 55861), (153, 55888), (158, 55930), (169, 56047), (183, 56125), (185, 56143), (197, 56194), (205, 56227), (208, 56260), (220, 56317), (232, 56344), (240, 56386), (257, 56443), (262, 56467), (267, 56497), (270, 56515), (275, 56542), (291, 56644), (295, 56671), (297, 56683), (310, 56752), (312, 56761), (317, 56791), (318, 56797), (327, 56833), (331, 56848), (335, 56863), (337, 56884),

Gene: Linus_90 Start: 59226, Stop: 60971, Start Num: 21

Candidate Starts for Linus_90:

(Start: 21 @59226 has 18 MA's), (25, 59247), (36, 59325), (41, 59349), (51, 59394), (62, 59418), (71, 59457), (95, 59616), (98, 59625), (103, 59667), (106, 59688), (111, 59721), (112, 59727), (113, 59730), (117, 59745), (119, 59760), (133, 59847), (136, 59859), (138, 59865), (143, 59901), (148, 59925), (150, 59937), (164, 60069), (178, 60153), (181, 60174), (184, 60186), (187, 60201), (188, 60204), (193, 60228), (198, 60252), (202, 60264), (211, 60321), (224, 60366), (244, 60432), (246, 60444), (248, 60453), (256, 60477), (257, 60480), (263, 60516), (264, 60522), (268, 60546), (282, 60627), (283, 60633), (284, 60651), (289, 60678), (290, 60684), (294, 60714), (296, 60720), (305, 60780), (315, 60831), (316, 60837), (324, 60876),

Gene: Lymara_87 Start: 57699, Stop: 59444, Start Num: 21

Candidate Starts for Lymara_87:

(4, 57546), (Start: 21 @57699 has 18 MA's), (25, 57720), (36, 57798), (41, 57822), (51, 57867), (71, 57930), (95, 58089), (98, 58098), (100, 58116), (103, 58140), (106, 58161), (111, 58194), (112, 58200), (133, 58320), (136, 58332), (138, 58338), (143, 58374), (150, 58410), (157, 58461), (164, 58542), (187, 58674), (188, 58677), (193, 58701), (198, 58725), (202, 58737), (207, 58773), (211, 58794), (224, 58839), (244, 58905), (246, 58917), (248, 58926), (254, 58947), (256, 58950), (263,

58989), (264, 58995), (268, 59019), (282, 59100), (283, 59106), (284, 59124), (289, 59151), (290, 59157), (294, 59187), (296, 59193), (305, 59253), (307, 59265), (315, 59304), (316, 59310), (324, 59349),

Gene: Makima_38 Start: 27813, Stop: 26014, Start Num: 10

Candidate Starts for Makima_38:

(Start: 10 @27813 has 19 MA's), (18, 27756), (28, 27693), (80, 27438), (82, 27426), (99, 27342), (122, 27204), (145, 27054), (151, 27018), (155, 26982), (161, 26928), (163, 26907), (186, 26757), (191, 26736), (204, 26679), (206, 26673), (219, 26628), (229, 26604), (232, 26598), (234, 26574), (248, 26544), (251, 26535), (267, 26460), (270, 26442), (271, 26439), (294, 26286), (304, 26226), (314, 26178), (340, 26040), (341, 26037),

Gene: Mareelih_167 Start: 96276, Stop: 94366, Start Num: 8

Candidate Starts for Mareelih_167:

(Start: 8 @96276 has 5 MA's), (40, 96072), (52, 96024), (68, 95979), (77, 95898), (78, 95886), (97, 95781), (102, 95754), (118, 95649), (124, 95625), (152, 95460), (190, 95193), (191, 95184), (197, 95157), (209, 95088), (265, 94839), (274, 94773), (279, 94749), (299, 94614), (309, 94554), (323, 94482),

Gene: Mimi_101 Start: 80085, Stop: 81923, Start Num: 9

Candidate Starts for Mimi_101:

(Start: 9 @80085 has 14 MA's), (20, 80166), (32, 80244), (55, 80340), (76, 80400), (79, 80430), (102, 80550), (108, 80601), (121, 80661), (168, 81000), (179, 81057), (182, 81078), (191, 81123), (204, 81180), (206, 81186), (209, 81219), (211, 81231), (214, 81243), (227, 81288), (235, 81327), (258, 81384), (259, 81390), (265, 81423), (276, 81492), (288, 81576), (307, 81693), (342, 81867), (344, 81909),

Gene: Mireles_41 Start: 27371, Stop: 25572, Start Num: 10

Candidate Starts for Mireles_41:

(Start: 10 @27371 has 19 MA's), (18, 27314), (28, 27251), (80, 26996), (82, 26984), (99, 26900), (115, 26789), (122, 26762), (145, 26612), (151, 26576), (155, 26540), (161, 26486), (163, 26465), (191, 26294), (204, 26237), (206, 26231), (219, 26186), (229, 26162), (232, 26156), (234, 26132), (248, 26102), (251, 26093), (267, 26018), (270, 26000), (271, 25997), (294, 25844), (304, 25784), (314, 25736), (340, 25598), (341, 25595),

Gene: Mordred_90 Start: 58817, Stop: 60562, Start Num: 21

Candidate Starts for Mordred_90:

(Start: 21 @58817 has 18 MA's), (25, 58838), (36, 58916), (41, 58940), (51, 58985), (62, 59009), (71, 59048), (95, 59207), (98, 59216), (103, 59258), (106, 59279), (111, 59312), (112, 59318), (113, 59321), (117, 59336), (119, 59351), (133, 59438), (136, 59450), (138, 59456), (143, 59492), (148, 59516), (150, 59528), (164, 59660), (178, 59744), (181, 59765), (184, 59777), (187, 59792), (188, 59795), (193, 59819), (198, 59843), (202, 59855), (211, 59912), (224, 59957), (244, 60023), (246, 60035), (248, 60044), (256, 60068), (257, 60071), (263, 60107), (264, 60113), (268, 60137), (282, 60218), (283, 60224), (284, 60242), (289, 60269), (290, 60275), (294, 60305), (296, 60311), (305, 60371), (315, 60422), (316, 60428), (324, 60467),

Gene: MoyaNatalis_89 Start: 58700, Stop: 60445, Start Num: 21

Candidate Starts for MoyaNatalis_89:

(Start: 21 @58700 has 18 MA's), (25, 58721), (36, 58799), (41, 58823), (51, 58868), (62, 58892), (71, 58931), (95, 59090), (98, 59099), (103, 59141), (106, 59162), (111, 59195), (112, 59201), (113, 59204), (117, 59219), (119, 59234), (133, 59321), (136, 59333), (138, 59339), (143, 59375), (148, 59399), (150, 59411), (164, 59543), (178, 59627), (181, 59648), (184, 59660), (187, 59675), (188, 59678), (193, 59702), (198, 59726), (202, 59738), (211, 59795), (224, 59840), (244, 59906), (246,

59918), (248, 59927), (256, 59951), (257, 59954), (263, 59990), (264, 59996), (268, 60020), (282, 60101), (283, 60107), (284, 60125), (289, 60152), (290, 60158), (294, 60188), (296, 60194), (305, 60254), (315, 60305), (316, 60311), (324, 60350),

Gene: Neuville_38 Start: 26376, Stop: 24544, Start Num: 10

Candidate Starts for Neuville_38:

(Start: 10 @26376 has 19 MA's), (18, 26319), (59, 26118), (82, 25983), (105, 25848), (109, 25821), (122, 25764), (124, 25749), (131, 25695), (147, 25599), (149, 25593), (151, 25578), (157, 25533), (161, 25485), (163, 25464), (165, 25446), (171, 25395), (189, 25302), (191, 25290), (206, 25227), (221, 25155), (239, 25095), (248, 25074), (265, 25008), (267, 24990), (270, 24972), (271, 24969), (278, 24933), (292, 24825), (294, 24816), (304, 24756), (314, 24708),

Gene: Ottawa_61 Start: 33948, Stop: 35849, Start Num: 2

Candidate Starts for Ottawa_61:

(1, 33855), (Start: 2 @33948 has 2 MA's), (11, 34035), (19, 34089), (26, 34140), (30, 34188), (35, 34212), (67, 34338), (69, 34347), (101, 34533), (106, 34575), (132, 34722), (138, 34743), (148, 34800), (153, 34824), (158, 34866), (160, 34902), (176, 35040), (197, 35142), (222, 35268), (232, 35292), (240, 35334), (295, 35619), (306, 35682), (313, 35712), (330, 35793), (334, 35808),

Gene: Panchaali_92 Start: 77571, Stop: 79412, Start Num: 9

Candidate Starts for Panchaali_92:

(Start: 9 @77571 has 14 MA's), (49, 77829), (55, 77844), (82, 77949), (85, 77985), (94, 78015), (105, 78084), (106, 78093), (108, 78105), (114, 78138), (137, 78264), (166, 78477), (170, 78522), (182, 78582), (191, 78627), (204, 78684), (206, 78690), (209, 78723), (211, 78735), (214, 78747), (248, 78864), (249, 78867), (259, 78891), (266, 78933), (270, 78960), (276, 78993), (280, 79017), (288, 79077), (303, 79170), (307, 79194), (340, 79362), (341, 79365),

Gene: Patbob_100 Start: 80820, Stop: 82658, Start Num: 9

Candidate Starts for Patbob_100:

(Start: 9 @80820 has 14 MA's), (32, 80979), (55, 81075), (76, 81135), (79, 81165), (96, 81255), (102, 81285), (108, 81336), (121, 81396), (179, 81792), (182, 81813), (191, 81858), (206, 81921), (209, 81954), (211, 81966), (214, 81978), (227, 82023), (235, 82062), (258, 82119), (259, 82125), (265, 82158), (276, 82227), (288, 82311), (307, 82428), (342, 82602), (344, 82644),

Gene: PauloDiaboli_114 Start: 78533, Stop: 76683, Start Num: 10

Candidate Starts for PauloDiaboli_114:

(3, 78602), (5, 78596), (Start: 10 @78533 has 19 MA's), (16, 78488), (18, 78476), (37, 78350), (52, 78287), (76, 78212), (92, 78104), (98, 78086), (107, 78017), (110, 77990), (118, 77930), (147, 77765), (164, 77621), (177, 77534), (182, 77507), (190, 77471), (191, 77462), (204, 77405), (206, 77399), (211, 77354), (214, 77342), (218, 77321), (228, 77297), (235, 77261), (252, 77216), (271, 77132), (272, 77129), (273, 77123), (283, 77060), (298, 76958), (314, 76871), (321, 76829), (333, 76778),

Gene: Phendrix_173 Start: 92821, Stop: 90896, Start Num: 10

Candidate Starts for Phendrix_173:

(Start: 10 @92821 has 19 MA's), (15, 92779), (32, 92665), (46, 92590), (70, 92521), (77, 92452), (124, 92179), (127, 92161), (130, 92137), (137, 92098), (162, 91918), (173, 91834), (177, 91810), (189, 91750), (191, 91738), (197, 91711), (209, 91642), (210, 91639), (243, 91474), (255, 91423), (260, 91399), (269, 91333), (277, 91294), (279, 91282), (294, 91174), (300, 91141), (303, 91120), (309, 91087), (319, 91036), (323, 91018),

Gene: Phrampa_94 Start: 82318, Stop: 84156, Start Num: 9

Candidate Starts for Phrampa_94:

(Start: 9 @82318 has 14 MA's), (32, 82477), (55, 82573), (76, 82633), (79, 82663), (96, 82753), (102, 82783), (121, 82894), (168, 83233), (182, 83311), (191, 83356), (206, 83419), (209, 83452), (211, 83464), (214, 83476), (215, 83491), (216, 83494), (227, 83521), (235, 83560), (258, 83617), (259, 83623), (265, 83656), (276, 83725), (288, 83809), (307, 83926), (342, 84100), (344, 84142),

Gene: PrincessTrina_91 Start: 59008, Stop: 60753, Start Num: 21

Candidate Starts for PrincessTrina_91:

(Start: 21 @59008 has 18 MA's), (25, 59029), (36, 59107), (41, 59131), (51, 59176), (62, 59200), (71, 59239), (95, 59398), (98, 59407), (103, 59449), (106, 59470), (111, 59503), (112, 59509), (113, 59512), (117, 59527), (119, 59542), (133, 59629), (136, 59641), (138, 59647), (143, 59683), (148, 59707), (150, 59719), (164, 59851), (178, 59935), (184, 59968), (187, 59983), (188, 59986), (193, 60010), (198, 60034), (200, 60040), (202, 60046), (211, 60103), (224, 60148), (244, 60214), (246, 60226), (248, 60235), (256, 60259), (257, 60262), (263, 60298), (264, 60304), (268, 60328), (282, 60409), (283, 60415), (284, 60433), (289, 60460), (290, 60466), (294, 60496), (296, 60502), (305, 60562), (315, 60613), (316, 60619), (324, 60658),

Gene: Pumpernickel_111 Start: 80095, Stop: 78248, Start Num: 10

Candidate Starts for Pumpernickel_111:

(Start: 10 @80095 has 19 MA's), (52, 79855), (53, 79852), (61, 79831), (76, 79780), (92, 79672), (99, 79651), (122, 79489), (155, 79276), (162, 79210), (164, 79189), (166, 79180), (174, 79123), (177, 79102), (182, 79075), (190, 79039), (191, 79030), (193, 79018), (204, 78973), (206, 78967), (209, 78934), (236, 78823), (237, 78820), (250, 78778), (264, 78727), (283, 78607), (286, 78580), (296, 78520), (320, 78382), (321, 78376), (332, 78328), (343, 78268),

Gene: Racecar_102 Start: 80738, Stop: 82576, Start Num: 9

Candidate Starts for Racecar_102:

(Start: 9 @80738 has 14 MA's), (20, 80819), (32, 80897), (55, 80993), (76, 81053), (79, 81083), (102, 81203), (108, 81254), (121, 81314), (168, 81653), (179, 81710), (182, 81731), (191, 81776), (204, 81833), (206, 81839), (209, 81872), (211, 81884), (214, 81896), (227, 81941), (235, 81980), (258, 82037), (259, 82043), (265, 82076), (276, 82145), (288, 82229), (307, 82346), (342, 82520), (344, 82562),

Gene: ReginaGlobina_100 Start: 80422, Stop: 82278, Start Num: 9

Candidate Starts for ReginaGlobina_100:

(Start: 9 @80422 has 14 MA's), (55, 80695), (82, 80800), (103, 80923), (105, 80935), (106, 80944), (125, 81040), (137, 81115), (147, 81175), (166, 81328), (170, 81373), (182, 81433), (191, 81478), (204, 81535), (206, 81541), (209, 81574), (211, 81586), (214, 81598), (248, 81715), (249, 81718), (265, 81775), (270, 81811), (273, 81823), (276, 81844), (288, 81928), (303, 82021), (307, 82045), (340, 82213), (341, 82216),

Gene: Roberts_38 Start: 26376, Stop: 24544, Start Num: 10

Candidate Starts for Roberts_38:

(Start: 10 @26376 has 19 MA's), (18, 26319), (59, 26118), (82, 25983), (105, 25848), (109, 25821), (122, 25764), (124, 25749), (131, 25695), (147, 25599), (149, 25593), (151, 25578), (157, 25533), (161, 25485), (163, 25464), (165, 25446), (171, 25395), (189, 25302), (191, 25290), (206, 25227), (221, 25155), (239, 25095), (248, 25074), (265, 25008), (267, 24990), (270, 24972), (271, 24969), (278, 24933), (292, 24825), (294, 24816), (304, 24756), (314, 24708),

Gene: Rockabye_101 Start: 73971, Stop: 75830, Start Num: 9

Candidate Starts for Rockabye_101:

(Start: 9 @73971 has 14 MA's), (43, 74187), (55, 74229), (57, 74235), (73, 74268), (79, 74337), (82, 74352), (85, 74388), (96, 74427), (108, 74508), (121, 74568), (164, 74871), (182, 74985), (191, 75030), (206, 75093), (209, 75126), (211, 75138), (223, 75186), (230, 75204), (248, 75270), (249,

75273), (258, 75291), (265, 75330), (276, 75399), (279, 75414), (283, 75441), (287, 75477), (288, 75483), (307, 75600), (332, 75720), (341, 75771),

Gene: RosiePosie_90 Start: 58873, Stop: 60618, Start Num: 21

Candidate Starts for RosiePosie_90:

(Start: 21 @58873 has 18 MA's), (25, 58894), (36, 58972), (41, 58996), (51, 59041), (62, 59065), (71, 59104), (95, 59263), (98, 59272), (103, 59314), (106, 59335), (111, 59368), (112, 59374), (113, 59377), (117, 59392), (119, 59407), (133, 59494), (136, 59506), (138, 59512), (143, 59548), (148, 59572), (150, 59584), (164, 59716), (178, 59800), (181, 59821), (184, 59833), (187, 59848), (188, 59851), (193, 59875), (198, 59899), (202, 59911), (211, 59968), (224, 60013), (244, 60079), (246, 60091), (248, 60100), (256, 60124), (257, 60127), (263, 60163), (264, 60169), (268, 60193), (282, 60274), (283, 60280), (284, 60298), (289, 60325), (290, 60331), (294, 60361), (296, 60367), (305, 60427), (315, 60478), (316, 60484), (324, 60523),

Gene: SJReid_105 Start: 73084, Stop: 74940, Start Num: 9

Candidate Starts for SJReid_105:

(Start: 9 @73084 has 14 MA's), (55, 73342), (57, 73348), (73, 73381), (74, 73390), (79, 73450), (82, 73465), (96, 73540), (102, 73570), (108, 73621), (121, 73681), (164, 73984), (182, 74098), (191, 74143), (204, 74200), (206, 74206), (209, 74239), (211, 74251), (223, 74299), (227, 74308), (230, 74317), (249, 74386), (265, 74443), (276, 74512), (287, 74590), (288, 74596), (303, 74689), (307, 74713), (323, 74794), (332, 74833), (341, 74884),

Gene: Salgado_95 Start: 54910, Stop: 56574, Start Num: 29

Candidate Starts for Salgado_95:

(Start: 29 @54910 has 9 MA's), (42, 54973), (58, 55033), (67, 55069), (75, 55114), (93, 55234), (109, 55327), (113, 55351), (116, 55363), (126, 55417), (135, 55468), (141, 55504), (147, 55531), (153, 55558), (158, 55600), (169, 55717), (183, 55795), (185, 55813), (197, 55864), (205, 55897), (208, 55930), (220, 55987), (232, 56014), (240, 56056), (257, 56113), (262, 56137), (267, 56167), (270, 56185), (275, 56212), (291, 56314), (295, 56341), (297, 56353), (310, 56422), (312, 56431), (317, 56461), (318, 56467), (327, 56503), (331, 56518), (335, 56533), (337, 56554),

Gene: Scavito_91 Start: 58866, Stop: 60611, Start Num: 21

Candidate Starts for Scavito_91:

(Start: 21 @58866 has 18 MA's), (25, 58887), (36, 58965), (41, 58989), (51, 59034), (62, 59058), (71, 59097), (95, 59256), (98, 59265), (103, 59307), (106, 59328), (111, 59361), (112, 59367), (113, 59370), (117, 59385), (119, 59400), (133, 59487), (136, 59499), (138, 59505), (143, 59541), (148, 59565), (150, 59577), (164, 59709), (178, 59793), (181, 59814), (184, 59826), (187, 59841), (188, 59844), (193, 59868), (198, 59892), (202, 59904), (211, 59961), (224, 60006), (244, 60072), (246, 60084), (248, 60093), (256, 60117), (257, 60120), (263, 60156), (264, 60162), (268, 60186), (282, 60267), (283, 60273), (284, 60291), (289, 60318), (290, 60324), (294, 60354), (296, 60360), (305, 60420), (315, 60471), (316, 60477), (324, 60516),

Gene: Shrooms_93 Start: 54534, Stop: 56189, Start Num: 29

Candidate Starts for Shrooms_93:

(Start: 29 @54534 has 9 MA's), (42, 54597), (44, 54606), (47, 54627), (66, 54690), (86, 54828), (93, 54858), (109, 54951), (116, 54987), (126, 55041), (135, 55092), (139, 55116), (141, 55128), (147, 55155), (151, 55176), (153, 55182), (158, 55224), (169, 55341), (183, 55419), (185, 55437), (197, 55488), (205, 55521), (208, 55554), (217, 55602), (232, 55638), (240, 55680), (267, 55791), (270, 55809), (275, 55836), (280, 55863), (295, 55965), (310, 56046), (312, 56055), (313, 56058), (317, 56085), (318, 56091), (327, 56127), (331, 56142), (337, 56178),

Gene: Sixama_168 Start: 96248, Stop: 94338, Start Num: 8

Candidate Starts for Sixama_168:

(Start: 8 @96248 has 5 MA's), (12, 96227), (14, 96218), (15, 96200), (22, 96155), (24, 96140), (28, 96116), (32, 96086), (52, 95996), (68, 95951), (72, 95939), (77, 95870), (97, 95753), (102, 95726), (124, 95597), (142, 95480), (152, 95432), (160, 95363), (182, 95201), (190, 95165), (191, 95156), (194, 95141), (197, 95129), (206, 95093), (209, 95060), (226, 94985), (230, 94973), (238, 94934), (245, 94883), (279, 94721), (309, 94526), (320, 94469), (329, 94424),

Gene: Stewart25555_92 Start: 77330, Stop: 79183, Start Num: 9

Candidate Starts for Stewart25555_92:

(Start: 9 @77330 has 14 MA's), (55, 77603), (82, 77708), (85, 77744), (94, 77774), (105, 77843), (106, 77852), (114, 77897), (137, 78023), (166, 78236), (170, 78281), (182, 78341), (191, 78386), (206, 78449), (209, 78482), (211, 78494), (214, 78506), (248, 78623), (266, 78692), (276, 78752), (288, 78836), (300, 78908), (303, 78929), (307, 78953), (340, 79121), (341, 79124),

Gene: Studio_40 Start: 27739, Stop: 25907, Start Num: 10

Candidate Starts for Studio_40:

(Start: 10 @27739 has 19 MA's), (18, 27682), (59, 27481), (82, 27346), (105, 27211), (109, 27184), (122, 27127), (124, 27112), (131, 27058), (147, 26962), (149, 26956), (151, 26941), (159, 26866), (161, 26848), (163, 26827), (165, 26809), (189, 26665), (191, 26653), (206, 26590), (221, 26518), (239, 26458), (248, 26437), (265, 26371), (266, 26362), (267, 26353), (270, 26335), (271, 26332), (278, 26296), (292, 26188), (294, 26179), (300, 26146), (304, 26119), (314, 26071),

Gene: TMaxx_39 Start: 26999, Stop: 25191, Start Num: 10

Candidate Starts for TMaxx_39:

(6, 27044), (Start: 10 @26999 has 19 MA's), (18, 26939), (28, 26876), (59, 26738), (82, 26609), (99, 26525), (122, 26387), (151, 26201), (161, 26108), (163, 26087), (191, 25916), (194, 25901), (206, 25853), (229, 25784), (232, 25778), (233, 25763), (248, 25724), (251, 25715), (264, 25661), (265, 25658), (267, 25640), (270, 25622), (294, 25466), (300, 25433), (304, 25406), (308, 25385), (332, 25268), (341, 25217),

Gene: Talia1610_101 Start: 80103, Stop: 81941, Start Num: 9

Candidate Starts for Talia1610_101:

(Start: 9 @80103 has 14 MA's), (20, 80184), (32, 80262), (55, 80358), (76, 80418), (79, 80448), (102, 80568), (108, 80619), (121, 80679), (168, 81018), (179, 81075), (182, 81096), (191, 81141), (204, 81198), (206, 81204), (209, 81237), (211, 81249), (214, 81261), (227, 81306), (235, 81345), (258, 81402), (259, 81408), (265, 81441), (276, 81510), (288, 81594), (307, 81711), (342, 81885), (344, 81927),

Gene: Tophat_91 Start: 59055, Stop: 60800, Start Num: 21

Candidate Starts for Tophat_91:

(Start: 21 @59055 has 18 MA's), (25, 59076), (36, 59154), (41, 59178), (51, 59223), (62, 59247), (71, 59286), (95, 59445), (98, 59454), (103, 59496), (106, 59517), (111, 59550), (112, 59556), (113, 59559), (117, 59574), (119, 59589), (133, 59676), (136, 59688), (138, 59694), (143, 59730), (148, 59754), (150, 59766), (164, 59898), (178, 59982), (181, 60003), (184, 60015), (187, 60030), (188, 60033), (193, 60057), (198, 60081), (202, 60093), (211, 60150), (224, 60195), (244, 60261), (246, 60273), (248, 60282), (256, 60306), (257, 60309), (263, 60345), (264, 60351), (268, 60375), (282, 60456), (283, 60462), (284, 60480), (289, 60507), (290, 60513), (294, 60543), (296, 60549), (305, 60609), (315, 60660), (316, 60666), (324, 60705),

Gene: TripleC_39 Start: 29350, Stop: 27542, Start Num: 10

Candidate Starts for TripleC_39:

(6, 29395), (Start: 10 @29350 has 19 MA's), (18, 29290), (38, 29167), (59, 29089), (80, 28972), (82, 28960), (99, 28876), (122, 28738), (151, 28552), (161, 28459), (163, 28438), (179, 28333), (191, 28267), (194, 28252), (206, 28204), (229, 28135), (231, 28132), (232, 28129), (233, 28114), (248,

28075), (251, 28066), (258, 28048), (264, 28012), (265, 28009), (267, 27991), (270, 27973), (271, 27970), (277, 27937), (294, 27817), (300, 27784), (304, 27757), (314, 27709), (332, 27619), (341, 27568),

Gene: WaddleDee_88 Start: 75744, Stop: 77588, Start Num: 9

Candidate Starts for WaddleDee_88:

(Start: 9 @75744 has 14 MA's), (55, 76017), (82, 76125), (94, 76191), (105, 76260), (106, 76269), (122, 76344), (166, 76653), (170, 76698), (179, 76737), (182, 76758), (191, 76803), (204, 76860), (206, 76866), (209, 76899), (211, 76911), (214, 76923), (248, 77040), (250, 77046), (270, 77136), (276, 77169), (288, 77253), (303, 77346), (307, 77370), (340, 77538), (341, 77541),

Gene: Waltz_91 Start: 53322, Stop: 54977, Start Num: 29

Candidate Starts for Waltz_91:

(Start: 29 @53322 has 9 MA's), (42, 53385), (44, 53394), (66, 53478), (93, 53646), (109, 53739), (116, 53775), (126, 53829), (135, 53880), (141, 53916), (147, 53943), (153, 53970), (156, 54003), (158, 54012), (169, 54129), (183, 54207), (185, 54225), (197, 54276), (205, 54309), (208, 54342), (217, 54390), (232, 54426), (240, 54468), (267, 54579), (270, 54597), (275, 54624), (280, 54651), (291, 54726), (295, 54753), (307, 54819), (310, 54834), (312, 54843), (313, 54846), (317, 54873), (318, 54879), (331, 54930), (336, 54951), (337, 54966),

Gene: Wheelbite_90 Start: 54992, Stop: 56656, Start Num: 29

Candidate Starts for Wheelbite_90:

(Start: 29 @54992 has 9 MA's), (42, 55055), (44, 55064), (67, 55151), (75, 55196), (93, 55316), (109, 55409), (113, 55433), (116, 55445), (126, 55499), (135, 55550), (141, 55586), (147, 55613), (151, 55634), (153, 55640), (158, 55682), (169, 55799), (183, 55877), (185, 55895), (197, 55946), (205, 55979), (208, 56012), (220, 56069), (232, 56096), (240, 56138), (262, 56219), (267, 56249), (270, 56267), (275, 56294), (280, 56321), (291, 56396), (295, 56423), (297, 56435), (310, 56504), (311, 56510), (312, 56513), (313, 56516), (317, 56543), (318, 56549), (327, 56585), (331, 56600), (335, 56615), (337, 56636),

Gene: Zooman_98 Start: 76212, Stop: 74272, Start Num: 10

Candidate Starts for Zooman_98:

(Start: 10 @76212 has 19 MA's), (28, 76086), (31, 76059), (52, 75966), (53, 75963), (76, 75891), (85, 75810), (91, 75786), (120, 75510), (162, 75225), (164, 75204), (178, 75114), (190, 75054), (191, 75045), (194, 75030), (204, 74988), (206, 74982), (209, 74949), (211, 74937), (213, 74928), (218, 74904), (235, 74844), (250, 74808), (272, 74712), (273, 74706), (283, 74643), (285, 74622), (286, 74616), (298, 74541), (299, 74535), (301, 74514), (314, 74454), (321, 74412), (326, 74388), (328, 74376),