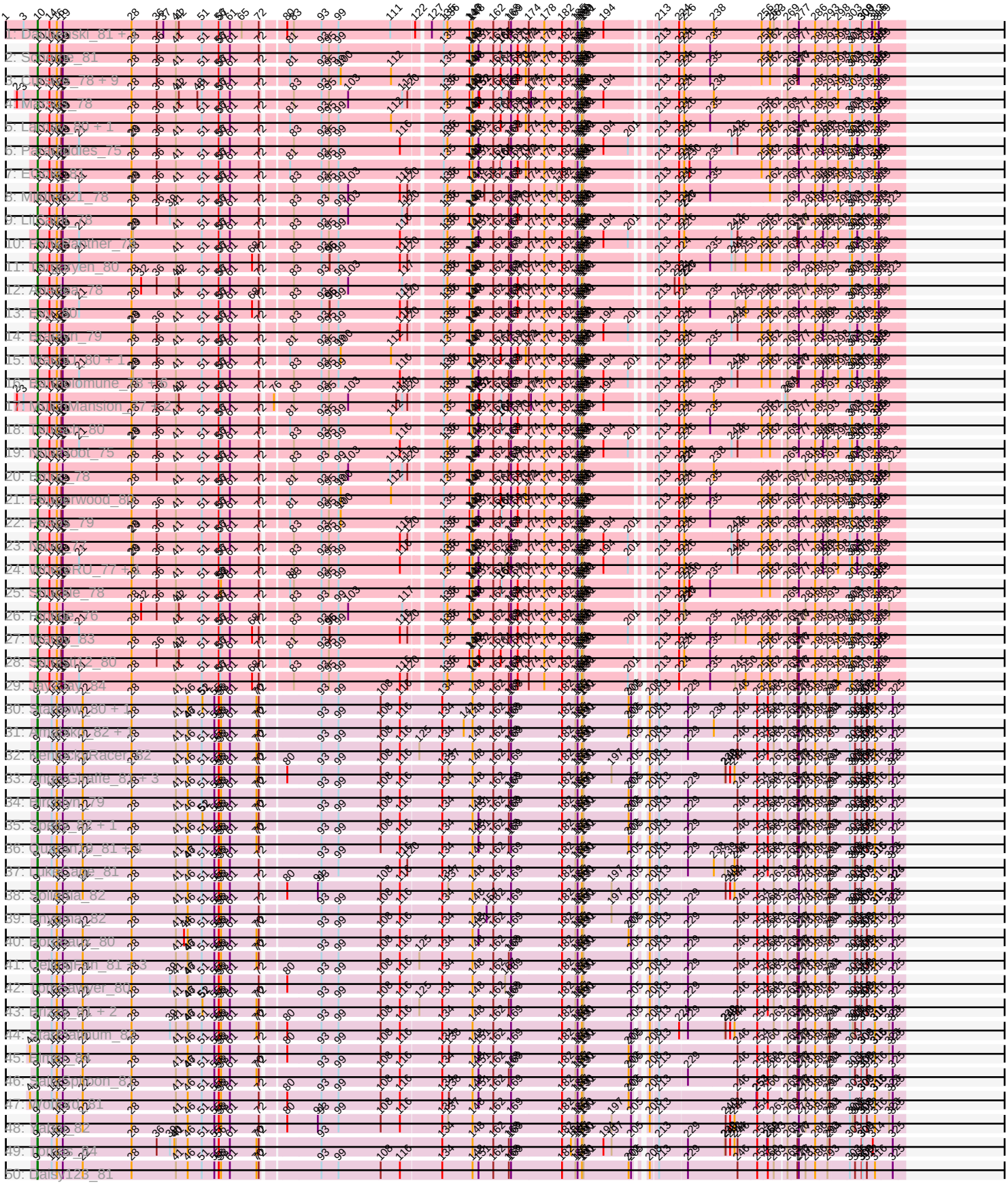
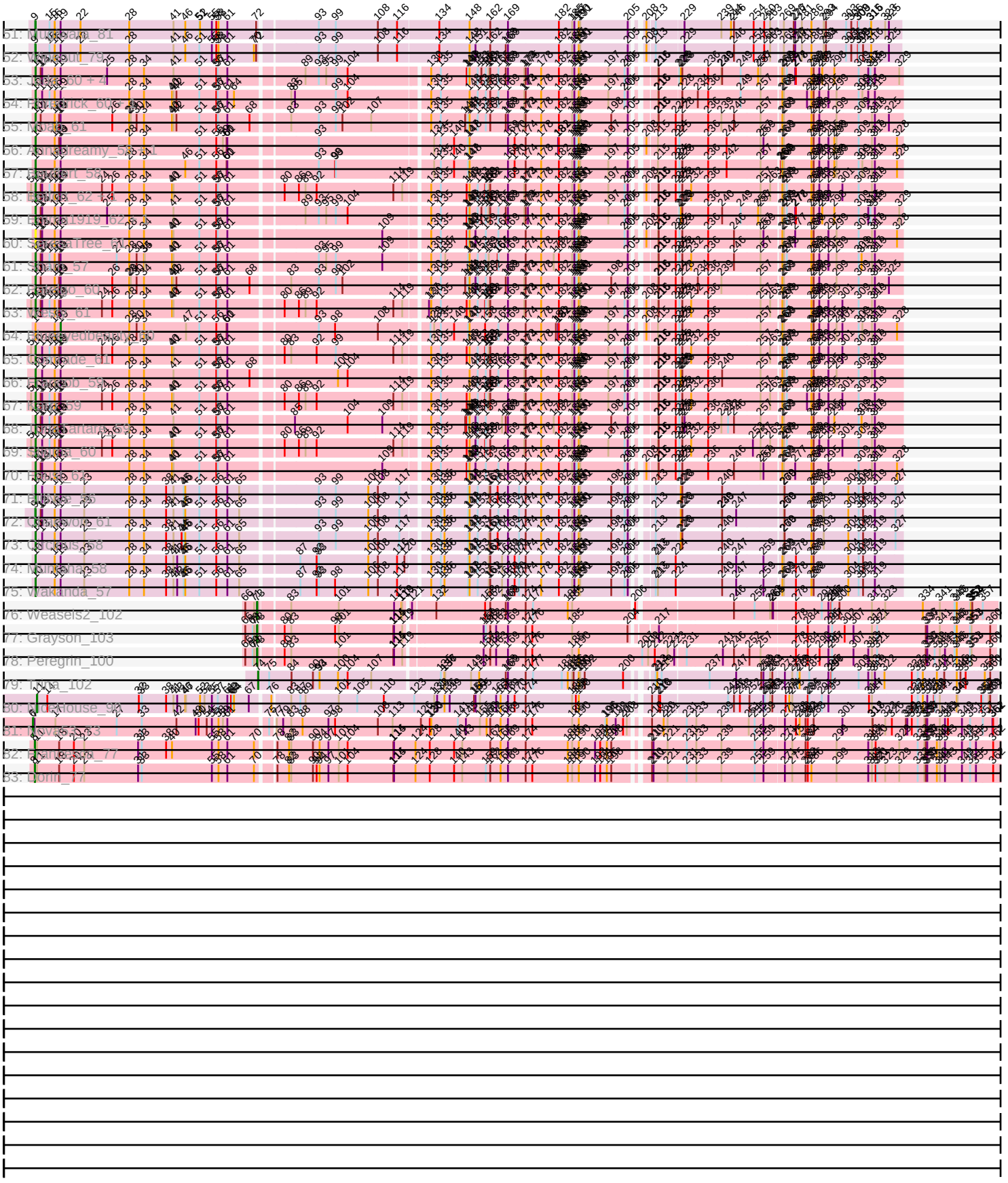
Pham 339478



Pham 339478



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 339478 Report

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

Pham number 339478 has 127 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Daubenski_81, Cadmus_78
• Track 2 : Scheme_81
• Track 3 : Cursive_78, HangryHippo_80, Coogler_80, Watermoore_80, BlueOtter_80, PacManQ_79, Leo04_81, ArianaSWT_80, Cross_80, Lululemon_79
• Track 4 : Marsus_78
• Track 5 : Larnav_80, Tribute_78
• Track 6 : Paradiddles_75
• Track 7 : EGole_81
• Track 8 : Mildred21_78
• Track 9 : LilSaint_78
• Track 10 : PynkPanther_78
• Track 11 : Targaryen_80
• Track 12 : Anedea_78
• Track 13 : Evy_80
• Track 14 : Braelyn_79
• Track 15 : WashU_80, Sushi23_79
• Track 16 : Bartholomune_78, FreddyDRoo_78, Squillium_79, Eliot67_77, Persimmon_77, Liandry_78, PinkiePie_78
• Track 17 : MulchMansion_77, LilMartin_77, Angela_76
• Track 18 : Teutsch_80
• Track 19 : NootNoot_75
• Track 20 : Bmoc_78
• Track 21 : Pepperwood_80
• Track 22 : Peebs_79
• Track 23 : Navo_77
• Track 24 : WhereRU_77, Davielle_78
• Track 25 : Shuckle_78
• Track 26 : Riptide_76
• Track 27 : Warpy_83
• Track 28 : Samisti12_80
• Track 29 : Jay2Jay_84
• Track 30 : Starbow_80, Battuta_80
• Track 31 : Amabiko_82, MindFlayer_79
• Track 32 : KentuckyRacer_82
• Track 33 : AngryGiraffe_81, BoomerJR_82, Genie2_82, Stanimal_82
• Track 34 : Birchlyn_79
• Track 35 : Spelly_82, AcciDwight_85

• Track 36 : Quaran19_81, Tuesday_85, Jollison_81, PumpkinSpice_81, Rikishi_82
• Track 37 : LukeCage_81
• Track 38 : Sollertia_82
• Track 39 : Enygma_82
• Track 40 : Bordeaux_80
• Track 41 : CeilingFan_81, Karimac_81, Gibbi_86, JimJam_82
• Track 42 : TomSawyer_80
• Track 43 : Brizzy_81, IchabodCrane_79, Spilled_83
• Track 44 : StarPlatinum_82
• Track 45 : Elmer_84
• Track 46 : SaltySpitoon_81
• Track 47 : Wofford_81
• Track 48 : Yaboi_82
• Track 49 : Tomas_84
• Track 50 : Daisy123_81
• Track 51 : Mugiwara_81
• Track 52 : Wipeout_79
• Track 53 : Jada_60, Maupel_60, Forrest_62, MeganTheeKilla_59, Gilson_61
• Track 54 : Phredrick_60, Kenrey_62
• Track 55 : Moab_61
• Track 56 : Annadreamy_58, Limpid_57
• Track 57 : Beuffert_58
• Track 58 : Belfort_62, SparkleGoddess_61
• Track 59 : Emma1919_62, DeluluLabubu_60
• Track 60 : SeresaTree_61
• Track 61 : Sham_57
• Track 62 : Patelgo_60
• Track 63 : Westy_61
• Track 64 : Blueeyedbeauty_60
• Track 65 : Comrade_61
• Track 66 : Francob_59
• Track 67 : Karp_59
• Track 68 : TunaTartare_59
• Track 69 : Stigma_60
• Track 70 : Faust_61
• Track 71 : BillNye_56
• Track 72 : Chaewon_61
• Track 73 : Circinus_58
• Track 74 : Muntaha_58
• Track 75 : Wakanda_57
• Track 76 : Weasels2_102
• Track 77 : Grayson_103
• Track 78 : Peregrin_100
• Track 79 : Trina_102
• Track 80 : NiceHouse_90
• Track 81 : Nova53_73
• Track 82 : Francesca_77
• Track 83 : Dorin_77

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 76 of the 121 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anedea_78, Angela_76, Annadreamy_58, ArianaSWT_80, Bartholomune_78, Belfort_62, Beuffert_58, BillNye_56, BlueOtter_80, Bmoc_78, Braelyn_79, Cadmus_78, Circinus_58, Comrade_61, Coogler_80, Cross_80, Cursive_78, Daubenski_81, Davielle_78, DeluluLabubu_60, EGole_81, Eliot67_77, Emma1919_62, Evy_80, Faust_61, Forrest_62, Francob_59, FreddyDRoo_78, Gilson_61, HangryHippo_80, Jada_60, Jay2Jay_84, Karp_59, Kenrey_62, Larnav_80, Leo04_81, Liandry_78, LilMartin_77, LilSaint_78, Limpid_57, Lululemon_79, Marsus_78, Maupel_60, MeganTheeKilla_59, Mildred21_78, Moab_61, MulchMansion_77, Muntaha_58, Navo_77, NootNoot_75, PacManQ_79, Paradiddles_75, Patelgo_60, Peebs_79, Pepperwood_80, Persimmon_77, Phredrick_60, PinkiePie_78, PynkPanther_78, Riptide_76, Samisti12_80, Scheme_81, SeresaTree_61, Sham_57, Shuckle_78, SparkleGoddess_61, Squillium_79, Stigma_60, Sushi23_79, Targaryen_80, Teutsch_80, Tribute_78, TunaTartare_59, Wakanda_57, Warpy_83, WashU_80, Watermoore_80, Westy_61, WhereRU_77,

Genes that have the "Most Annotated" start but do not call it:
• Blueeyedbeauty_60,

Genes that do not have the "Most Annotated" start:
• AcciDwight_85, Amabiko_82, AngryGiraffe_81, Battuta_80, Birchlyn_79, BoomerJR_82, Bordeaux_80, Brizzy_81, CeilingFan_81, Chaewon_61, Daisy123_81, Dorin_77, Elmer_84, Enygma_82, Francesca_77, Genie2_82, Gibbi_86, Grayson_103, IchabodCrane_79, JimJam_82, Jollison_81, Karimac_81, KentuckyRacer_82, LukeCage_81, MindFlayer_79, Mugiwara_81, NiceHouse_90, Nova53_73, Peregrin_100, PumpkinSpice_81, Quaran19_81, Rikishi_82, SaltySpitoon_81, Sollertia_82, Spelly_82, Spilled_83, Stanimal_82, StarPlatinum_82, Starbow_80, TomSawyer_80, Tomas_84, Trina_102, Tuesday_85, Weasels2_102, Wipeout_79, Wofford_81, Yaboi_82,

Summary by start number:

Start 6:
• Found in 1 of 127 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 121
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nova53_73 (CG),

Start 8:
• Found in 2 of 127 (1.6%) of genes in pham
• Manual Annotations of this start: 2 of 121
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dorin_77 (CG), Francesca_77 (CG),

Start 9:
• Found in 39 of 127 (30.7%) of genes in pham
• Manual Annotations of this start: 36 of 121
• Called 100.0% of time when present

• Phage (with cluster) where this start called: AcciDwight_85 (BE2), Amabiko_82 (BE2), AngryGiraffe_81 (BE2), Battuta_80 (BE2), Birchlyn_79 (BE2), BoomerJR_82 (BE2), Bordeaux_80 (BE2), Brizzy_81 (BE2), CeilingFan_81 (BE2), Chaewon_61 (BK2), Daisy123_81 (BE2), Elmer_84 (BE2), Enygma_82 (BE2), Genie2_82 (BE2), Gibbi_86 (BE2), IchabodCrane_79 (BE2), JimJam_82 (BE2), Jollison_81 (BE2), Karimac_81 (BE2), KentuckyRacer_82 (BE2), LukeCage_81 (BE2), MindFlayer_79 (BE2), Mugiwara_81 (BE2), PumpkinSpice_81 (BE2), Quaran19_81 (BE2), Rikishi_82 (BE2), SaltySpitoon_81 (BE2), Sollertia_82 (BE2), Spelly_82 (BE2), Spilled_83 (BE2), Stanimal_82 (BE2), StarPlatinum_82 (BE2), Starbow_80 (BE2), TomSawyer_80 (BE2), Tomas_84 (BE2), Tuesday_85 (BE2), Wipeout_79 (BE2), Wofford_81 (BE2), Yaboi_82 (BE2),

Start 10:
• Found in 80 of 127 (63.0%) of genes in pham
• Manual Annotations of this start: 76 of 121
• Called 98.8% of time when present
• Phage (with cluster) where this start called: Anedea_78 (BE1), Angela_76 (BE1), Annadreamy_58 (BK1), ArianaSWT_80 (BE1), Bartholomune_78 (BE1), Belfort_62 (BK1), Beuffert_58 (BK1), BillNye_56 (BK2), BlueOtter_80 (BE1), Bmoc_78 (BE1), Braelyn_79 (BE1), Cadmus_78 (BE1), Circinus_58 (BK2), Comrade_61 (BK1), Coogler_80 (BE1), Cross_80 (BE1), Cursive_78 (BE1), Daubenski_81 (BE1), Davielle_78 (BE1), DeluluLabubu_60 (BK1), EGole_81 (BE1), Eliot67_77 (BE1), Emma1919_62 (BK1), Evy_80 (BE1), Faust_61 (BK1), Forrest_62 (BK1), Francob_59 (BK1), FreddyDRoo_78 (BE1), Gilson_61 (BK1), HangryHippo_80 (BE1), Jada_60 (BK1), Jay2Jay_84 (BE1), Karp_59 (BK1), Kenrey_62 (BK1), Larnav_80 (BE1), Leo04_81 (BE1), Liandry_78 (BE1), LilMartin_77 (BE1), LilSaint_78 (BE1), Limpid_57 (BK1), Lululemon_79 (BE1), Marsus_78 (BE1), Maupel_60 (BK1), MeganTheeKilla_59 (BK1), Mildred21_78 (BE1), Moab_61 (BK1), MulchMansion_77 (BE1), Muntaha_58 (BK2), Navo_77 (BE1), NootNoot_75 (BE1), PacManQ_79 (BE1), Paradiddles_75 (BE1), Patelgo_60 (BK1), Peebs_79 (BE1), Pepperwood_80 (BE1), Persimmon_77 (BE1), Phredrick_60 (BK1), PinkiePie_78 (BE1), PynkPanther_78 (BE1), Riptide_76 (BE1), Samisti12_80 (BE1), Scheme_81 (BE1), SeresaTree_61 (BK1), Sham_57 (BK1), Shuckle_78 (BE1), SparkleGoddess_61 (BK1), Squillium_79 (BE1), Stigma_60 (BK1), Sushi23_79 (BE1), Targaryen_80 (BE1), Teutsch_80 (BE1), Tribute_78 (BE1), TunaTartare_59 (BK1), Wakanda_57 (BK2), Warpy_83 (BE1), WashU_80 (BE1), Watermoore_80 (BE1), Westy_61 (BK1), WhereRU_77 (BE1),

Start 11:
• Found in 3 of 127 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 121
• Called 33.3% of time when present
• Phage (with cluster) where this start called: NiceHouse_90 (CE),

Start 19:
• Found in 119 of 127 (93.7%) of genes in pham
• Manual Annotations of this start: 1 of 121
• Called 0.8% of time when present
• Phage (with cluster) where this start called: Blueeyedbeauty_60 (BK1),

Start 73:
• Found in 3 of 127 (2.4%) of genes in pham
• Manual Annotations of this start: 3 of 121
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Grayson_103 (CB), Peregrin_100 (CB), Weasels2_102 (CB),

Start 74:
• Found in 1 of 127 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 121
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Trina_102 (CE),

Summary by clusters:

There are 7 clusters represented in this pham: CB, CG, CE, BK1, BK2, BE2, BE1,

Info for manual annotations of cluster BE1:
•Start number 10 was manually annotated 49 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 9 was manually annotated 35 times for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 10 was manually annotated 23 times for cluster BK1.
•Start number 19 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 9 was manually annotated 1 time for cluster BK2.
•Start number 10 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster CB:
•Start number 73 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:
•Start number 11 was manually annotated 1 time for cluster CE.
•Start number 74 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:
•Start number 6 was manually annotated 1 time for cluster CG.
•Start number 8 was manually annotated 2 times for cluster CG.

Gene Information:

Gene: AcciDwight_85 Start: 58398, Stop: 61718, Start Num: 9
Candidate Starts for AcciDwight_85:
(Start: 9 @58398 has 36 MA's), (15, 58449), (16, 58470), (Start: 19 @58494 has 1 MA's), (22, 58575), (28, 58773), (41, 58953), (46, 59001), (51, 59058), (52, 59061), (55, 59109), (56, 59127), (58, 59136), (61, 59172), (70, 59280), (72, 59289), (93, 59499), (99, 59568), (108, 59733), (116, 59811), (134, 59973), (148, 60096), (151, 60120), (162, 60180), (168, 60243), (169, 60252), (182, 60456), (185, 60510), (187, 60519), (190, 60537), (191, 60543), (202, 60726), (205, 60735), (208, 60759), (213, 60786), (229, 60894), (246, 61083), (254, 61161), (260, 61203), (263, 61221), (269, 61263), (276, 61302), (277, 61308), (281, 61335), (286, 61374), (293, 61422), (294, 61431), (303, 61503), (306, 61524), (308, 61551), (309, 61554), (312, 61569), (316, 61602), (325, 61671),

Gene: Amabiko_82 Start: 58443, Stop: 61763, Start Num: 9
Candidate Starts for Amabiko_82:
(Start: 9 @58443 has 36 MA's), (15, 58494), (16, 58515), (Start: 19 @58539 has 1 MA's), (22, 58620), (28, 58818), (41, 58998), (46, 59046), (47, 59049), (51, 59103), (55, 59154), (56, 59172), (58, 59181), (61, 59217), (70, 59325), (72, 59334), (93, 59544), (99, 59613), (108, 59778), (116, 59856), (134, 60018), (142, 60105), (148, 60141), (162, 60225), (168, 60288), (169, 60297), (182, 60501), (185, 60555), (187, 60564), (190, 60582), (191, 60588), (202, 60771), (205, 60780), (208, 60804), (213, 60831), (229, 60939), (238, 61038), (246, 61128), (254, 61206), (260, 61248), (263, 61266), (269, 61308), (276, 61347), (277, 61353), (281, 61380), (286, 61419), (293, 61467), (294, 61476), (303, 61548), (306, 61569), (308, 61596), (309, 61599), (312, 61614), (316, 61647), (325, 61716),

Gene: Anedea_78 Start: 57982, Stop: 61266, Start Num: 10
Candidate Starts for Anedea_78:
(Start: 10 @57982 has 76 MA's), (14, 58027), (16, 58057), (Start: 19 @58081 has 1 MA's), (28, 58360), (32, 58399), (36, 58462), (41, 58540), (42, 58552), (51, 58645), (56, 58708), (57, 58714), (61, 58753), (72, 58870), (83, 58969), (93, 59080), (99, 59149), (103, 59188), (117, 59401), (135, 59536), (136, 59551), (146, 59641), (147, 59647), (148, 59653), (162, 59737), (168, 59800), (169, 59809), (170, 59836), (174, 59881), (178, 59944), (182, 60016), (185, 60070), (187, 60079), (189, 60088), (190, 60097), (191, 60103), (213, 60346), (222, 60397), (224, 60415), (226, 60427), (227, 60430), (269, 60811), (281, 60883), (286, 60922), (293, 60970), (303, 61051), (304, 61060), (309, 61102), (316, 61150), (319, 61165), (323, 61204),

Gene: Angela_76 Start: 57448, Stop: 60732, Start Num: 10
Candidate Starts for Angela_76:
(2, 57364), (3, 57391), (Start: 10 @57448 has 76 MA's), (14, 57493), (16, 57523), (18, 57541), (Start: 19 @57547 has 1 MA's), (28, 57826), (36, 57928), (41, 58006), (42, 58018), (51, 58111), (56, 58174), (57, 58180), (61, 58219), (72, 58336), (76, 58375), (83, 58435), (93, 58546), (95, 58576), (103, 58654), (114, 58843), (117, 58867), (120, 58888), (135, 59002), (136, 59017), (146, 59107), (147, 59113), (148, 59119), (151, 59143), (152, 59146), (162, 59203), (165, 59236), (168, 59266), (169, 59275), (174, 59347), (175, 59356), (178, 59410), (182, 59482), (185, 59536), (187, 59545), (189, 59554), (190, 59563), (191, 59569), (194, 59650), (213, 59812), (224, 59881), (226, 59893), (238, 60007), (267, 60268), (269, 60277), (286, 60388), (293, 60436), (303, 60517), (309, 60568), (316, 60616), (319, 60631),

Gene: AngryGiraffe_81 Start: 58389, Stop: 61709, Start Num: 9
Candidate Starts for AngryGiraffe_81:
(Start: 9 @58389 has 36 MA's), (16, 58461), (Start: 19 @58485 has 1 MA's), (22, 58566), (28, 58764), (41, 58944), (46, 58992), (51, 59049), (55, 59100), (56, 59118), (58, 59127), (61, 59163), (70, 59271), (72, 59280), (80, 59352), (93, 59490), (99, 59559), (108, 59724), (116, 59802), (134, 59964), (137, 59988), (148, 60087), (162, 60171), (169, 60243), (182, 60447), (185, 60501), (187, 60510), (190, 60528), (191, 60534), (197, 60648), (205, 60726), (208, 60750), (213, 60777), (239, 61029), (240, 61032), (242, 61050), (244, 61062), (254, 61152), (263, 61212), (269, 61254), (276, 61293), (277, 61299), (281, 61326), (286, 61365), (293, 61413), (294, 61422), (303, 61494), (305, 61506), (306, 61515), (308, 61542), (309, 61545), (312, 61560), (316, 61593), (323, 61647), (325, 61662),

Gene: Annadreamy_58 Start: 47706, Stop: 50996, Start Num: 10
Candidate Starts for Annadreamy_58:
(Start: 10 @47706 has 76 MA's), (16, 47778), (18, 47796), (Start: 19 @47802 has 1 MA's), (28, 48081), (34, 48141), (51, 48366), (56, 48429), (59, 48456), (60, 48471), (61, 48474), (93, 48801), (131, 49230), (135, 49257), (140, 49311), (147, 49368), (148, 49374), (169, 49530), (170, 49557), (174, 49602), (178, 49665), (181, 49734), (182, 49737), (185, 49791), (187, 49800), (189, 49809), (190, 49818), (191, 49824), (197, 49938), (205, 50016), (208, 50040), (215, 50076), (224, 50136), (225, 50142), (236, 50259), (242, 50328), (257, 50457), (259, 50469), (268, 50526), (269, 50532), (286, 50643),

(288, 50652), (289, 50673), (295, 50703), (298, 50727), (299, 50736), (309, 50823), (317, 50874), (319, 50886), (328, 50973),

Gene: ArianaSWT_80 Start: 59125, Stop: 62409, Start Num: 10
Candidate Starts for ArianaSWT_80:
(Start: 10 @59125 has 76 MA's), (14, 59170), (16, 59200), (18, 59218), (Start: 19 @59224 has 1 MA's), (28, 59503), (36, 59605), (41, 59683), (51, 59788), (56, 59851), (57, 59857), (61, 59896), (72, 60013), (81, 60097), (93, 60223), (95, 60253), (99, 60292), (100, 60301), (112, 60499), (135, 60679), (146, 60784), (147, 60790), (148, 60796), (162, 60880), (164, 60910), (169, 60952), (170, 60979), (172, 61012), (174, 61024), (178, 61087), (182, 61159), (185, 61213), (187, 61222), (189, 61231), (190, 61240), (191, 61246), (213, 61489), (224, 61558), (226, 61570), (235, 61675), (256, 61870), (262, 61903), (269, 61954), (276, 61993), (277, 61999), (286, 62065), (293, 62113), (298, 62149), (303, 62194), (304, 62203), (309, 62245), (315, 62290), (316, 62293), (319, 62308),

Gene: Bartholomune_78 Start: 57817, Stop: 61101, Start Num: 10
Candidate Starts for Bartholomune_78:
(Start: 10 @57817 has 76 MA's), (14, 57862), (16, 57892), (18, 57910), (Start: 19 @57916 has 1 MA's), (21, 57982), (28, 58195), (29, 58201), (36, 58297), (41, 58375), (51, 58480), (56, 58543), (57, 58549), (61, 58588), (72, 58705), (83, 58804), (93, 58915), (95, 58945), (99, 58984), (116, 59227), (135, 59371), (136, 59386), (147, 59482), (148, 59488), (151, 59512), (162, 59572), (168, 59635), (169, 59644), (174, 59716), (178, 59779), (182, 59851), (185, 59905), (187, 59914), (189, 59923), (190, 59932), (191, 59938), (194, 60019), (201, 60118), (213, 60181), (224, 60250), (226, 60262), (243, 60448), (246, 60466), (256, 60562), (262, 60595), (269, 60646), (276, 60685), (277, 60691), (286, 60757), (289, 60787), (293, 60805), (298, 60841), (303, 60886), (304, 60895), (307, 60916), (309, 60937), (316, 60985), (319, 61000),

Gene: Battuta_80 Start: 58417, Stop: 61737, Start Num: 9
Candidate Starts for Battuta_80:
(Start: 9 @58417 has 36 MA's), (15, 58468), (16, 58489), (Start: 19 @58513 has 1 MA's), (22, 58594), (28, 58792), (41, 58972), (46, 59020), (51, 59077), (52, 59080), (55, 59128), (56, 59146), (58, 59155), (61, 59191), (70, 59299), (72, 59308), (93, 59518), (99, 59587), (108, 59752), (116, 59830), (134, 59992), (148, 60115), (162, 60199), (168, 60262), (169, 60271), (182, 60475), (185, 60529), (187, 60538), (190, 60556), (191, 60562), (202, 60745), (205, 60754), (208, 60778), (213, 60805), (229, 60913), (246, 61102), (254, 61180), (260, 61222), (263, 61240), (269, 61282), (276, 61321), (277, 61327), (281, 61354), (286, 61393), (293, 61441), (294, 61450), (303, 61522), (306, 61543), (308, 61570), (309, 61573), (312, 61588), (316, 61621), (325, 61690),

Gene: Belfort_62 Start: 50235, Stop: 53525, Start Num: 10
Candidate Starts for Belfort_62:
(5, 50217), (Start: 10 @50235 has 76 MA's), (12, 50250), (13, 50256), (15, 50286), (16, 50307), (18, 50325), (Start: 19 @50331 has 1 MA's), (24, 50499), (26, 50541), (28, 50610), (34, 50670), (40, 50784), (41, 50790), (51, 50895), (56, 50958), (57, 50964), (61, 51003), (80, 51192), (86, 51249), (89, 51276), (92, 51321), (114, 51627), (119, 51663), (130, 51747), (135, 51786), (146, 51891), (148, 51903), (153, 51936), (158, 51966), (159, 51969), (161, 51981), (162, 51987), (169, 52059), (173, 52125), (174, 52131), (178, 52194), (182, 52266), (185, 52320), (187, 52329), (190, 52347), (191, 52353), (197, 52467), (201, 52533), (205, 52545), (208, 52569), (215, 52605), (216, 52608), (224, 52665), (225, 52671), (228, 52683), (232, 52719), (236, 52788), (257, 52986), (263, 53019), (268, 53055), (269, 53061), (273, 53073), (286, 53172), (288, 53181), (289, 53202), (295, 53232), (301, 53289), (309, 53352), (317, 53403), (319, 53415),

Gene: Beuffert_58 Start: 48843, Stop: 52133, Start Num: 10
Candidate Starts for Beuffert_58:

(Start: 10 @48843 has 76 MA's), (16, 48915), (Start: 19 @48939 has 1 MA's), (28, 49218), (34, 49278), (46, 49446), (51, 49503), (56, 49566), (60, 49608), (61, 49611), (93, 49938), (98, 50004), (99, 50007), (131, 50367), (135, 50394), (140, 50448), (147, 50505), (148, 50511), (169, 50667), (170, 50694), (174, 50739), (178, 50802), (182, 50874), (185, 50928), (187, 50937), (189, 50946), (190, 50955), (191, 50961), (197, 51075), (205, 51153), (215, 51213), (224, 51273), (225, 51279), (228, 51291), (236, 51396), (242, 51465), (257, 51594), (266, 51657), (267, 51660), (268, 51663), (269, 51669), (286, 51780), (288, 51789), (289, 51810), (295, 51840), (298, 51864), (299, 51873), (309, 51960), (311, 51972), (317, 52011), (319, 52023), (328, 52110),

Gene: BillNye_56 Start: 51723, Stop: 55010, Start Num: 10
Candidate Starts for BillNye_56:
(Start: 10 @51723 has 76 MA's), (13, 51744), (16, 51795), (Start: 19 @51819 has 1 MA's), (23, 51915), (28, 52098), (34, 52158), (38, 52248), (41, 52278), (45, 52320), (46, 52326), (51, 52383), (56, 52446), (61, 52491), (65, 52539), (93, 52818), (99, 52887), (106, 53019), (108, 53052), (117, 53139), (130, 53235), (135, 53274), (136, 53289), (147, 53385), (148, 53391), (153, 53424), (161, 53469), (162, 53475), (164, 53505), (169, 53547), (171, 53592), (174, 53619), (178, 53682), (182, 53754), (185, 53808), (187, 53817), (190, 53835), (191, 53841), (198, 53967), (201, 54021), (205, 54033), (213, 54084), (226, 54165), (228, 54171), (240, 54327), (269, 54549), (270, 54552), (286, 54660), (288, 54669), (293, 54708), (304, 54798), (309, 54840), (312, 54855), (319, 54903), (327, 54981),

Gene: Birchlyn_79 Start: 56300, Stop: 59620, Start Num: 9
Candidate Starts for Birchlyn_79:
(Start: 9 @56300 has 36 MA's), (15, 56351), (16, 56372), (Start: 19 @56396 has 1 MA's), (22, 56477), (28, 56675), (41, 56855), (46, 56903), (51, 56960), (55, 57011), (56, 57029), (58, 57038), (61, 57074), (70, 57182), (72, 57191), (93, 57401), (99, 57470), (108, 57635), (116, 57713), (134, 57875), (148, 57998), (162, 58082), (168, 58145), (169, 58154), (182, 58358), (185, 58412), (187, 58421), (190, 58439), (191, 58445), (202, 58628), (205, 58637), (208, 58661), (213, 58688), (229, 58796), (246, 58985), (254, 59063), (260, 59105), (263, 59123), (269, 59165), (276, 59204), (277, 59210), (281, 59237), (286, 59276), (293, 59324), (294, 59333), (303, 59405), (306, 59426), (308, 59453), (309, 59456), (312, 59471), (316, 59504), (325, 59573),

Gene: BlueOtter_80 Start: 59162, Stop: 62446, Start Num: 10
Candidate Starts for BlueOtter_80:
(Start: 10 @59162 has 76 MA's), (14, 59207), (16, 59237), (18, 59255), (Start: 19 @59261 has 1 MA's), (28, 59540), (36, 59642), (41, 59720), (51, 59825), (56, 59888), (57, 59894), (61, 59933), (72, 60050), (81, 60134), (93, 60260), (95, 60290), (99, 60329), (100, 60338), (112, 60536), (135, 60716), (146, 60821), (147, 60827), (148, 60833), (162, 60917), (164, 60947), (169, 60989), (170, 61016), (172, 61049), (174, 61061), (178, 61124), (182, 61196), (185, 61250), (187, 61259), (189, 61268), (190, 61277), (191, 61283), (213, 61526), (224, 61595), (226, 61607), (235, 61712), (256, 61907), (262, 61940), (269, 61991), (276, 62030), (277, 62036), (286, 62102), (293, 62150), (298, 62186), (303, 62231), (304, 62240), (309, 62282), (315, 62327), (316, 62330), (319, 62345),

Gene: Blueeyedbeauty_60 Start: 48314, Stop: 51508, Start Num: 19
Candidate Starts for Blueeyedbeauty_60:
(Start: 10 @48218 has 76 MA's), (16, 48290), (Start: 19 @48314 has 1 MA's), (28, 48593), (30, 48623), (34, 48653), (47, 48824), (51, 48878), (56, 48941), (60, 48983), (61, 48986), (93, 49313), (98, 49379), (108, 49547), (129, 49727), (131, 49742), (135, 49769), (140, 49823), (147, 49880), (148, 49886), (158, 49949), (165, 50003), (169, 50042), (174, 50114), (178, 50177), (180, 50237), (181, 50246), (182, 50249), (185, 50303), (187, 50312), (189, 50321), (190, 50330), (191, 50336), (197, 50450), (205, 50528), (208, 50552), (215, 50588), (224, 50648), (225, 50654), (228, 50666), (236, 50771), (257, 50969), (267, 51035), (268, 51038), (269, 51044), (286, 51155), (287, 51161), (288, 51164), (289, 51185), (295, 51215), (299, 51248), (301, 51272), (309, 51335), (311, 51347), (317, 51386), (319, 51398), (328, 51485),

Gene: Bmoc_78 Start: 57819, Stop: 61103, Start Num: 10
Candidate Starts for Bmoc_78:
(Start: 10 @57819 has 76 MA's), (14, 57864), (16, 57894), (Start: 19 @57918 has 1 MA's), (28, 58197), (36, 58299), (41, 58377), (51, 58482), (56, 58545), (57, 58551), (61, 58590), (72, 58707), (83, 58806), (93, 58917), (99, 58986), (103, 59025), (111, 59190), (117, 59238), (120, 59259), (135, 59373), (136, 59388), (146, 59478), (147, 59484), (148, 59490), (162, 59574), (168, 59637), (169, 59646), (170, 59673), (174, 59718), (178, 59781), (182, 59853), (185, 59907), (187, 59916), (189, 59925), (190, 59934), (191, 59940), (213, 60183), (224, 60252), (226, 60264), (227, 60267), (238, 60378), (269, 60648), (281, 60720), (286, 60759), (293, 60807), (303, 60888), (304, 60897), (309, 60939), (316, 60987), (319, 61002), (323, 61041),

Gene: BoomerJR_82 Start: 58278, Stop: 61598, Start Num: 9
Candidate Starts for BoomerJR_82:
(Start: 9 @58278 has 36 MA's), (16, 58350), (Start: 19 @58374 has 1 MA's), (22, 58455), (28, 58653), (41, 58833), (46, 58881), (51, 58938), (55, 58989), (56, 59007), (58, 59016), (61, 59052), (70, 59160), (72, 59169), (80, 59241), (93, 59379), (99, 59448), (108, 59613), (116, 59691), (134, 59853), (137, 59877), (148, 59976), (162, 60060), (169, 60132), (182, 60336), (185, 60390), (187, 60399), (190, 60417), (191, 60423), (197, 60537), (205, 60615), (208, 60639), (213, 60666), (239, 60918), (240, 60921), (242, 60939), (244, 60951), (254, 61041), (263, 61101), (269, 61143), (276, 61182), (277, 61188), (281, 61215), (286, 61254), (293, 61302), (294, 61311), (303, 61383), (305, 61395), (306, 61404), (308, 61431), (309, 61434), (312, 61449), (316, 61482), (323, 61536), (325, 61551),

Gene: Bordeaux_80 Start: 58572, Stop: 61892, Start Num: 9
Candidate Starts for Bordeaux_80:
(Start: 9 @58572 has 36 MA's), (15, 58623), (16, 58644), (Start: 19 @58668 has 1 MA's), (22, 58749), (28, 58947), (41, 59127), (44, 59160), (46, 59175), (51, 59232), (55, 59283), (56, 59301), (58, 59310), (61, 59346), (70, 59454), (72, 59463), (93, 59673), (99, 59742), (108, 59907), (116, 59985), (134, 60147), (148, 60270), (151, 60294), (162, 60354), (169, 60426), (182, 60630), (185, 60684), (187, 60693), (190, 60711), (191, 60717), (202, 60900), (205, 60909), (208, 60933), (213, 60960), (229, 61068), (246, 61257), (254, 61335), (260, 61377), (263, 61395), (269, 61437), (276, 61476), (277, 61482), (281, 61509), (286, 61548), (293, 61596), (294, 61605), (303, 61677), (306, 61698), (308, 61725), (309, 61728), (312, 61743), (316, 61776), (325, 61845),

Gene: Braelyn_79 Start: 58581, Stop: 61865, Start Num: 10
Candidate Starts for Braelyn_79:
(Start: 10 @58581 has 76 MA's), (14, 58626), (16, 58656), (18, 58674), (Start: 19 @58680 has 1 MA's), (28, 58959), (29, 58965), (36, 59061), (41, 59139), (51, 59244), (56, 59307), (57, 59313), (61, 59352), (72, 59469), (83, 59568), (93, 59679), (95, 59709), (99, 59748), (116, 59991), (120, 60021), (135, 60135), (136, 60150), (146, 60240), (147, 60246), (148, 60252), (162, 60336), (168, 60399), (169, 60408), (174, 60480), (178, 60543), (182, 60615), (185, 60669), (187, 60678), (189, 60687), (190, 60696), (191, 60702), (194, 60783), (201, 60882), (213, 60945), (224, 61014), (226, 61026), (243, 61212), (246, 61230), (256, 61326), (262, 61359), (269, 61410), (277, 61455), (286, 61521), (289, 61551), (293, 61569), (303, 61650), (307, 61680), (309, 61701), (316, 61749), (319, 61764),

Gene: Brizzy_81 Start: 58091, Stop: 61411, Start Num: 9
Candidate Starts for Brizzy_81:
(Start: 9 @58091 has 36 MA's), (15, 58142), (16, 58163), (Start: 19 @58187 has 1 MA's), (22, 58268), (28, 58466), (41, 58646), (46, 58694), (47, 58697), (51, 58751), (52, 58754), (55, 58802), (56, 58820), (58, 58829), (61, 58865), (70, 58973), (72, 58982), (93, 59192), (99, 59261), (108, 59426), (116, 59504), (125, 59573), (134, 59666), (148, 59789), (162, 59873), (168, 59936), (169, 59945), (182, 60149), (185, 60203), (187, 60212), (190, 60230), (191, 60236), (205, 60428), (208, 60452), (213, 60479), (229, 60587), (246, 60776), (254, 60854), (260, 60896), (263, 60914), (269, 60956), (276,

60995), (277, 61001), (281, 61028), (286, 61067), (293, 61115), (303, 61196), (306, 61217), (308, 61244), (309, 61247), (312, 61262), (316, 61295), (325, 61364),

Gene: Cadmus_78 Start: 58149, Stop: 61433, Start Num: 10
Candidate Starts for Cadmus_78:
(1, 58020), (3, 58092), (Start: 10 @58149 has 76 MA's), (14, 58194), (16, 58224), (Start: 19 @58248 has 1 MA's), (28, 58527), (36, 58629), (37, 58656), (41, 58707), (42, 58719), (51, 58812), (56, 58875), (57, 58881), (61, 58920), (65, 58968), (72, 59037), (80, 59109), (83, 59136), (93, 59247), (99, 59316), (111, 59520), (122, 59610), (127, 59655), (135, 59703), (136, 59718), (146, 59808), (147, 59814), (148, 59820), (162, 59904), (168, 59967), (169, 59976), (174, 60048), (178, 60111), (182, 60183), (185, 60237), (187, 60246), (189, 60255), (190, 60264), (191, 60270), (194, 60351), (213, 60513), (224, 60582), (226, 60594), (238, 60708), (256, 60894), (262, 60927), (263, 60936), (269, 60978), (277, 61023), (286, 61089), (293, 61137), (298, 61173), (303, 61218), (308, 61266), (309, 61269), (313, 61305), (316, 61317), (319, 61332),

Gene: CeilingFan_81 Start: 58332, Stop: 61652, Start Num: 9
Candidate Starts for CeilingFan_81:
(Start: 9 @58332 has 36 MA's), (15, 58383), (16, 58404), (Start: 19 @58428 has 1 MA's), (22, 58509), (28, 58707), (41, 58887), (46, 58935), (47, 58938), (51, 58992), (55, 59043), (56, 59061), (58, 59070), (61, 59106), (70, 59214), (72, 59223), (93, 59433), (99, 59502), (108, 59667), (116, 59745), (125, 59814), (134, 59907), (148, 60030), (162, 60114), (168, 60177), (169, 60186), (182, 60390), (185, 60444), (187, 60453), (190, 60471), (191, 60477), (205, 60669), (208, 60693), (213, 60720), (229, 60828), (246, 61017), (254, 61095), (260, 61137), (263, 61155), (269, 61197), (276, 61236), (277, 61242), (281, 61269), (286, 61308), (293, 61356), (303, 61437), (306, 61458), (308, 61485), (309, 61488), (312, 61503), (316, 61536), (325, 61605),

Gene: Chaewon_61 Start: 51856, Stop: 55143, Start Num: 9
Candidate Starts for Chaewon_61:
(Start: 9 @51856 has 36 MA's), (12, 51871), (13, 51877), (16, 51928), (Start: 19 @51952 has 1 MA's), (23, 52048), (28, 52231), (34, 52291), (38, 52381), (41, 52411), (45, 52453), (46, 52459), (51, 52516), (56, 52579), (61, 52624), (65, 52672), (93, 52951), (99, 53020), (106, 53152), (108, 53185), (117, 53272), (130, 53368), (135, 53407), (136, 53422), (147, 53518), (148, 53524), (153, 53557), (162, 53608), (165, 53641), (169, 53680), (171, 53725), (174, 53752), (178, 53815), (182, 53887), (185, 53941), (187, 53950), (190, 53968), (191, 53974), (198, 54100), (201, 54154), (205, 54166), (213, 54217), (226, 54298), (228, 54304), (239, 54457), (240, 54460), (247, 54511), (269, 54682), (270, 54685), (286, 54793), (288, 54802), (293, 54841), (304, 54931), (309, 54973), (312, 54988), (319, 55036), (327, 55114),

Gene: Circinus_58 Start: 51862, Stop: 55149, Start Num: 10
Candidate Starts for Circinus_58:
(Start: 10 @51862 has 76 MA's), (13, 51883), (16, 51934), (Start: 19 @51958 has 1 MA's), (23, 52054), (28, 52237), (34, 52297), (38, 52387), (41, 52417), (44, 52450), (45, 52459), (46, 52465), (51, 52522), (56, 52585), (61, 52630), (65, 52678), (93, 52957), (99, 53026), (106, 53158), (108, 53191), (117, 53278), (130, 53374), (135, 53413), (136, 53428), (147, 53524), (148, 53530), (153, 53563), (161, 53608), (162, 53614), (164, 53644), (169, 53686), (171, 53731), (174, 53758), (178, 53821), (182, 53893), (185, 53947), (187, 53956), (190, 53974), (191, 53980), (198, 54106), (201, 54160), (205, 54172), (213, 54223), (226, 54304), (228, 54310), (240, 54466), (269, 54688), (270, 54691), (286, 54799), (288, 54808), (293, 54847), (304, 54937), (309, 54979), (312, 54994), (319, 55042), (327, 55120),

Gene: Comrade_61 Start: 49851, Stop: 53141, Start Num: 10
Candidate Starts for Comrade_61:

(5, 49833), (Start: 10 @49851 has 76 MA's), (13, 49872), (15, 49902), (16, 49923), (18, 49941), (Start: 19 @49947 has 1 MA's), (24, 50115), (26, 50157), (28, 50226), (34, 50286), (40, 50400), (41, 50406), (51, 50511), (56, 50574), (57, 50580), (61, 50619), (80, 50808), (83, 50835), (92, 50937), (99, 51015), (114, 51243), (119, 51279), (130, 51363), (135, 51402), (146, 51507), (148, 51519), (153, 51552), (158, 51582), (159, 51585), (161, 51597), (162, 51603), (169, 51675), (173, 51741), (174, 51747), (178, 51810), (182, 51882), (185, 51936), (187, 51945), (190, 51963), (191, 51969), (197, 52083), (201, 52149), (205, 52161), (215, 52221), (216, 52224), (224, 52281), (225, 52287), (228, 52299), (232, 52335), (236, 52404), (257, 52602), (263, 52635), (268, 52671), (269, 52677), (273, 52689), (286, 52788), (288, 52797), (289, 52818), (295, 52848), (301, 52905), (309, 52968), (317, 53019), (319, 53031),

Gene: Coogler_80 Start: 59188, Stop: 62472, Start Num: 10
Candidate Starts for Coogler_80:
(Start: 10 @59188 has 76 MA's), (14, 59233), (16, 59263), (18, 59281), (Start: 19 @59287 has 1 MA's), (28, 59566), (36, 59668), (41, 59746), (51, 59851), (56, 59914), (57, 59920), (61, 59959), (72, 60076), (81, 60160), (93, 60286), (95, 60316), (99, 60355), (100, 60364), (112, 60562), (135, 60742), (146, 60847), (147, 60853), (148, 60859), (162, 60943), (164, 60973), (169, 61015), (170, 61042), (172, 61075), (174, 61087), (178, 61150), (182, 61222), (185, 61276), (187, 61285), (189, 61294), (190, 61303), (191, 61309), (213, 61552), (224, 61621), (226, 61633), (235, 61738), (256, 61933), (262, 61966), (269, 62017), (276, 62056), (277, 62062), (286, 62128), (293, 62176), (298, 62212), (303, 62257), (304, 62266), (309, 62308), (315, 62353), (316, 62356), (319, 62371),

Gene: Cross_80 Start: 59163, Stop: 62447, Start Num: 10
Candidate Starts for Cross_80:
(Start: 10 @59163 has 76 MA's), (14, 59208), (16, 59238), (18, 59256), (Start: 19 @59262 has 1 MA's), (28, 59541), (36, 59643), (41, 59721), (51, 59826), (56, 59889), (57, 59895), (61, 59934), (72, 60051), (81, 60135), (93, 60261), (95, 60291), (99, 60330), (100, 60339), (112, 60537), (135, 60717), (146, 60822), (147, 60828), (148, 60834), (162, 60918), (164, 60948), (169, 60990), (170, 61017), (172, 61050), (174, 61062), (178, 61125), (182, 61197), (185, 61251), (187, 61260), (189, 61269), (190, 61278), (191, 61284), (213, 61527), (224, 61596), (226, 61608), (235, 61713), (256, 61908), (262, 61941), (269, 61992), (276, 62031), (277, 62037), (286, 62103), (293, 62151), (298, 62187), (303, 62232), (304, 62241), (309, 62283), (315, 62328), (316, 62331), (319, 62346),

Gene: Cursive_78 Start: 58688, Stop: 61972, Start Num: 10
Candidate Starts for Cursive_78:
(Start: 10 @58688 has 76 MA's), (14, 58733), (16, 58763), (18, 58781), (Start: 19 @58787 has 1 MA's), (28, 59066), (36, 59168), (41, 59246), (51, 59351), (56, 59414), (57, 59420), (61, 59459), (72, 59576), (81, 59660), (93, 59786), (95, 59816), (99, 59855), (100, 59864), (112, 60062), (135, 60242), (146, 60347), (147, 60353), (148, 60359), (162, 60443), (164, 60473), (169, 60515), (170, 60542), (172, 60575), (174, 60587), (178, 60650), (182, 60722), (185, 60776), (187, 60785), (189, 60794), (190, 60803), (191, 60809), (213, 61052), (224, 61121), (226, 61133), (235, 61238), (256, 61433), (262, 61466), (269, 61517), (276, 61556), (277, 61562), (286, 61628), (293, 61676), (298, 61712), (303, 61757), (304, 61766), (309, 61808), (315, 61853), (316, 61856), (319, 61871),

Gene: Daisy123_81 Start: 58191, Stop: 61511, Start Num: 9
Candidate Starts for Daisy123_81:
(Start: 9 @58191 has 36 MA's), (15, 58242), (16, 58263), (Start: 19 @58287 has 1 MA's), (22, 58368), (28, 58566), (41, 58746), (46, 58794), (51, 58851), (55, 58902), (56, 58920), (58, 58929), (61, 58965), (70, 59073), (72, 59082), (93, 59292), (99, 59361), (108, 59526), (116, 59604), (134, 59766), (148, 59889), (151, 59913), (162, 59973), (168, 60036), (169, 60045), (182, 60249), (185, 60303), (187, 60312), (190, 60330), (191, 60336), (202, 60519), (205, 60528), (208, 60552), (213, 60579), (229, 60687), (246, 60876), (254, 60954), (260, 60996), (263, 61014), (269, 61056), (276, 61095), (277, 61101), (281, 61128), (286, 61167), (293, 61215), (303, 61296), (306, 61317), (308, 61344), (309,

61347), (312, 61362), (316, 61395), (325, 61464),

Gene: Daubenski_81 Start: 58913, Stop: 62197, Start Num: 10
Candidate Starts for Daubenski_81:
(1, 58784), (3, 58856), (Start: 10 @58913 has 76 MA's), (14, 58958), (16, 58988), (Start: 19 @59012 has 1 MA's), (28, 59291), (36, 59393), (37, 59420), (41, 59471), (42, 59483), (51, 59576), (56, 59639), (57, 59645), (61, 59684), (65, 59732), (72, 59801), (80, 59873), (83, 59900), (93, 60011), (99, 60080), (111, 60284), (122, 60374), (127, 60419), (135, 60467), (136, 60482), (146, 60572), (147, 60578), (148, 60584), (162, 60668), (168, 60731), (169, 60740), (174, 60812), (178, 60875), (182, 60947), (185, 61001), (187, 61010), (189, 61019), (190, 61028), (191, 61034), (194, 61115), (213, 61277), (224, 61346), (226, 61358), (238, 61472), (256, 61658), (262, 61691), (263, 61700), (269, 61742), (277, 61787), (286, 61853), (293, 61901), (298, 61937), (303, 61982), (308, 62030), (309, 62033), (313, 62069), (316, 62081), (319, 62096),

Gene: Davielle_78 Start: 58001, Stop: 61285, Start Num: 10
Candidate Starts for Davielle_78:
(Start: 10 @58001 has 76 MA's), (14, 58046), (16, 58076), (18, 58094), (Start: 19 @58100 has 1 MA's), (21, 58166), (28, 58379), (29, 58385), (36, 58481), (41, 58559), (51, 58664), (56, 58727), (57, 58733), (61, 58772), (72, 58889), (83, 58988), (93, 59099), (95, 59129), (99, 59168), (116, 59411), (135, 59555), (136, 59570), (146, 59660), (147, 59666), (148, 59672), (151, 59696), (162, 59756), (167, 59804), (168, 59819), (169, 59828), (174, 59900), (178, 59963), (182, 60035), (185, 60089), (187, 60098), (189, 60107), (190, 60116), (191, 60122), (194, 60203), (201, 60302), (213, 60365), (224, 60434), (226, 60446), (243, 60632), (246, 60650), (256, 60746), (262, 60779), (269, 60830), (277, 60875), (286, 60941), (289, 60971), (293, 60989), (298, 61025), (303, 61070), (304, 61079), (307, 61100), (309, 61121), (316, 61169), (319, 61184),

Gene: DeluluLabubu_60 Start: 47961, Stop: 51251, Start Num: 10
Candidate Starts for DeluluLabubu_60:
(Start: 10 @47961 has 76 MA's), (12, 47976), (13, 47982), (16, 48033), (Start: 19 @48057 has 1 MA's), (25, 48246), (28, 48336), (34, 48396), (41, 48516), (51, 48621), (56, 48684), (57, 48690), (61, 48729), (89, 49002), (93, 49056), (95, 49086), (99, 49125), (104, 49173), (130, 49473), (135, 49512), (146, 49617), (147, 49623), (148, 49629), (153, 49662), (156, 49677), (159, 49695), (161, 49707), (162, 49713), (165, 49746), (168, 49776), (169, 49785), (173, 49851), (174, 49857), (175, 49866), (178, 49920), (182, 49992), (185, 50046), (187, 50055), (190, 50073), (191, 50079), (197, 50193), (201, 50259), (205, 50271), (215, 50331), (216, 50334), (225, 50397), (226, 50403), (228, 50409), (236, 50514), (240, 50565), (249, 50634), (256, 50703), (257, 50712), (268, 50781), (269, 50787), (273, 50799), (277, 50832), (278, 50835), (286, 50898), (288, 50907), (289, 50928), (292, 50940), (298, 50982), (309, 51078), (313, 51114), (315, 51123), (319, 51141), (329, 51237),

Gene: Dorin_77 Start: 60424, Stop: 64227, Start Num: 8
Candidate Starts for Dorin_77:
(Start: 8 @60424 has 2 MA's), (Start: 11 @60433 has 1 MA's), (18, 60523), (20, 60583), (23, 60625), (31, 60844), (33, 60859), (55, 61144), (58, 61171), (61, 61207), (70, 61315), (78, 61372), (82, 61417), (83, 61426), (90, 61513), (92, 61528), (94, 61540), (97, 61576), (101, 61618), (104, 61654), (114, 61840), (115, 61843), (124, 61930), (128, 61987), (140, 62086), (143, 62113), (159, 62209), (162, 62227), (166, 62269), (169, 62299), (174, 62371), (176, 62395), (184, 62539), (185, 62557), (190, 62584), (193, 62650), (194, 62671), (196, 62698), (198, 62716), (210, 62827), (211, 62833), (221, 62890), (231, 62968), (233, 63001), (239, 63103), (255, 63238), (259, 63274), (271, 63352), (275, 63382), (282, 63436), (284, 63445), (286, 63460), (299, 63562), (313, 63691), (317, 63706), (320, 63721), (321, 63727), (323, 63760), (329, 63814), (333, 63889), (335, 63916), (336, 63922), (337, 63928), (340, 63967), (341, 63979), (343, 64000), (349, 64069), (351, 64102), (355, 64126), (362, 64195),

Gene: EGole_81 Start: 60108, Stop: 63392, Start Num: 10
Candidate Starts for EGole_81:
(Start: 10 @60108 has 76 MA's), (14, 60153), (16, 60183), (18, 60201), (Start: 19 @60207 has 1 MA's), (28, 60486), (36, 60588), (41, 60666), (51, 60771), (56, 60834), (57, 60840), (61, 60879), (72, 60996), (81, 61080), (93, 61206), (95, 61236), (99, 61275), (135, 61662), (146, 61767), (147, 61773), (148, 61779), (151, 61803), (162, 61863), (164, 61893), (165, 61896), (169, 61935), (170, 61962), (172, 61995), (174, 62007), (178, 62070), (182, 62142), (185, 62196), (187, 62205), (189, 62214), (190, 62223), (191, 62229), (213, 62472), (224, 62541), (226, 62553), (230, 62574), (235, 62658), (256, 62853), (262, 62886), (269, 62937), (277, 62982), (286, 63048), (293, 63096), (298, 63132), (303, 63177), (304, 63186), (309, 63228), (315, 63273), (316, 63276), (319, 63291),

Gene: Eliot67_77 Start: 57859, Stop: 61143, Start Num: 10
Candidate Starts for Eliot67_77:
(Start: 10 @57859 has 76 MA's), (14, 57904), (16, 57934), (18, 57952), (Start: 19 @57958 has 1 MA's), (21, 58024), (28, 58237), (29, 58243), (36, 58339), (41, 58417), (51, 58522), (56, 58585), (57, 58591), (61, 58630), (72, 58747), (83, 58846), (93, 58957), (95, 58987), (99, 59026), (116, 59269), (135, 59413), (136, 59428), (147, 59524), (148, 59530), (151, 59554), (162, 59614), (168, 59677), (169, 59686), (174, 59758), (178, 59821), (182, 59893), (185, 59947), (187, 59956), (189, 59965), (190, 59974), (191, 59980), (194, 60061), (201, 60160), (213, 60223), (224, 60292), (226, 60304), (243, 60490), (246, 60508), (256, 60604), (262, 60637), (269, 60688), (276, 60727), (277, 60733), (286, 60799), (289, 60829), (293, 60847), (298, 60883), (303, 60928), (304, 60937), (307, 60958), (309, 60979), (316, 61027), (319, 61042),

Gene: Elmer_84 Start: 59515, Stop: 62835, Start Num: 9
Candidate Starts for Elmer_84:
(4, 59485), (Start: 9 @59515 has 36 MA's), (15, 59566), (16, 59587), (Start: 19 @59611 has 1 MA's), (22, 59692), (28, 59890), (41, 60070), (46, 60118), (51, 60175), (55, 60226), (56, 60244), (58, 60253), (61, 60289), (72, 60406), (80, 60478), (93, 60616), (99, 60685), (108, 60850), (116, 60928), (134, 61090), (138, 61117), (148, 61213), (151, 61237), (162, 61297), (169, 61369), (182, 61573), (185, 61627), (187, 61636), (190, 61654), (191, 61660), (202, 61843), (205, 61852), (208, 61876), (213, 61903), (246, 62200), (254, 62278), (260, 62320), (269, 62380), (276, 62419), (277, 62425), (281, 62452), (286, 62491), (293, 62539), (294, 62548), (303, 62620), (308, 62668), (309, 62671), (315, 62716), (316, 62719), (323, 62773), (325, 62788),

Gene: Emma1919_62 Start: 48644, Stop: 51934, Start Num: 10
Candidate Starts for Emma1919_62:
(Start: 10 @48644 has 76 MA's), (12, 48659), (13, 48665), (16, 48716), (Start: 19 @48740 has 1 MA's), (25, 48929), (28, 49019), (34, 49079), (41, 49199), (51, 49304), (56, 49367), (57, 49373), (61, 49412), (89, 49685), (93, 49739), (95, 49769), (99, 49808), (104, 49856), (130, 50156), (135, 50195), (146, 50300), (147, 50306), (148, 50312), (153, 50345), (156, 50360), (159, 50378), (161, 50390), (162, 50396), (165, 50429), (168, 50459), (169, 50468), (173, 50534), (174, 50540), (175, 50549), (178, 50603), (182, 50675), (185, 50729), (187, 50738), (190, 50756), (191, 50762), (197, 50876), (201, 50942), (205, 50954), (215, 51014), (216, 51017), (225, 51080), (226, 51086), (228, 51092), (236, 51197), (240, 51248), (249, 51317), (256, 51386), (257, 51395), (268, 51464), (269, 51470), (273, 51482), (277, 51515), (278, 51518), (286, 51581), (288, 51590), (289, 51611), (292, 51623), (298, 51665), (309, 51761), (313, 51797), (315, 51806), (319, 51824), (329, 51920),

Gene: Enygma_82 Start: 60218, Stop: 63538, Start Num: 9
Candidate Starts for Enygma_82:
(Start: 9 @60218 has 36 MA's), (16, 60290), (Start: 19 @60314 has 1 MA's), (28, 60593), (41, 60773), (46, 60821), (51, 60878), (55, 60929), (56, 60947), (58, 60956), (61, 60992), (72, 61109), (93, 61319), (99, 61388), (108, 61553), (116, 61631), (134, 61793), (148, 61916), (157, 61973), (162, 62000), (169, 62072), (182, 62276), (185, 62330), (187, 62339), (190, 62357), (191, 62363), (197, 62477), (205,

62555), (208, 62579), (213, 62606), (229, 62714), (246, 62903), (254, 62981), (260, 63023), (263, 63041), (269, 63083), (277, 63128), (281, 63155), (286, 63194), (293, 63242), (294, 63251), (303, 63323), (305, 63335), (306, 63344), (308, 63371), (309, 63374), (315, 63419), (316, 63422), (323, 63476), (325, 63491),

Gene: Evy_80 Start: 59063, Stop: 62347, Start Num: 10
Candidate Starts for Evy_80:
(Start: 10 @59063 has 76 MA's), (14, 59108), (16, 59138), (18, 59156), (Start: 19 @59162 has 1 MA's), (21, 59228), (28, 59441), (41, 59621), (51, 59726), (56, 59789), (57, 59795), (61, 59834), (68, 59924), (72, 59951), (83, 60050), (93, 60161), (95, 60191), (96, 60194), (99, 60230), (116, 60473), (120, 60503), (135, 60617), (136, 60632), (146, 60722), (147, 60728), (148, 60734), (162, 60818), (168, 60881), (169, 60890), (170, 60917), (174, 60962), (178, 61025), (182, 61097), (185, 61151), (187, 61160), (189, 61169), (190, 61178), (191, 61184), (213, 61427), (224, 61496), (235, 61613), (245, 61703), (250, 61745), (256, 61808), (262, 61841), (269, 61892), (277, 61937), (286, 62003), (293, 62051), (303, 62132), (304, 62141), (309, 62183), (316, 62231), (319, 62246),

Gene: Faust_61 Start: 49769, Stop: 53059, Start Num: 10
Candidate Starts for Faust_61:
(Start: 10 @49769 has 76 MA's), (12, 49784), (13, 49790), (16, 49841), (Start: 19 @49865 has 1 MA's), (28, 50144), (34, 50204), (40, 50318), (41, 50324), (51, 50429), (56, 50492), (57, 50498), (61, 50537), (109, 51116), (130, 51281), (135, 51320), (146, 51425), (147, 51431), (148, 51437), (151, 51461), (159, 51503), (165, 51554), (169, 51593), (174, 51665), (178, 51728), (182, 51800), (185, 51854), (187, 51863), (189, 51872), (190, 51881), (191, 51887), (201, 52067), (205, 52079), (208, 52103), (215, 52139), (216, 52142), (224, 52199), (225, 52205), (228, 52217), (236, 52322), (246, 52415), (257, 52520), (259, 52532), (268, 52589), (269, 52595), (277, 52640), (286, 52706), (288, 52715), (295, 52766), (309, 52886), (317, 52937), (319, 52949), (328, 53036),

Gene: Forrest_62 Start: 49341, Stop: 52631, Start Num: 10
Candidate Starts for Forrest_62:
(Start: 10 @49341 has 76 MA's), (12, 49356), (13, 49362), (16, 49413), (Start: 19 @49437 has 1 MA's), (25, 49626), (28, 49716), (34, 49776), (41, 49896), (51, 50001), (56, 50064), (57, 50070), (61, 50109), (89, 50382), (93, 50436), (95, 50466), (99, 50505), (104, 50553), (130, 50853), (135, 50892), (146, 50997), (147, 51003), (148, 51009), (153, 51042), (156, 51057), (159, 51075), (161, 51087), (162, 51093), (165, 51126), (168, 51156), (169, 51165), (173, 51231), (174, 51237), (175, 51246), (178, 51300), (182, 51372), (185, 51426), (187, 51435), (190, 51453), (191, 51459), (197, 51573), (201, 51639), (205, 51651), (215, 51711), (216, 51714), (225, 51777), (226, 51783), (228, 51789), (236, 51894), (239, 51942), (240, 51945), (249, 52014), (256, 52083), (257, 52092), (268, 52161), (269, 52167), (273, 52179), (277, 52212), (278, 52215), (286, 52278), (288, 52287), (289, 52308), (292, 52320), (298, 52362), (309, 52458), (313, 52494), (315, 52503), (319, 52521), (329, 52617),

Gene: Francesca_77 Start: 61162, Stop: 64965, Start Num: 8
Candidate Starts for Francesca_77:
(Start: 8 @61162 has 2 MA's), (Start: 11 @61171 has 1 MA's), (18, 61261), (20, 61321), (23, 61363), (31, 61582), (33, 61597), (38, 61696), (40, 61720), (55, 61882), (58, 61909), (61, 61945), (70, 62053), (78, 62110), (82, 62155), (83, 62164), (90, 62251), (94, 62278), (97, 62314), (101, 62356), (104, 62392), (114, 62578), (115, 62581), (124, 62668), (128, 62725), (140, 62824), (143, 62851), (162, 62965), (166, 63007), (169, 63037), (174, 63109), (184, 63277), (185, 63295), (190, 63322), (193, 63388), (194, 63409), (196, 63436), (198, 63454), (210, 63565), (211, 63571), (221, 63628), (231, 63706), (233, 63739), (239, 63841), (255, 63976), (259, 64012), (271, 64090), (275, 64120), (282, 64174), (284, 64183), (299, 64300), (313, 64429), (317, 64444), (320, 64459), (329, 64552), (333, 64627), (335, 64654), (336, 64660), (337, 64666), (340, 64705), (341, 64717), (343, 64738), (349, 64807), (351, 64840), (355, 64864), (362, 64933),

Gene: Francob_59 Start: 48697, Stop: 51987, Start Num: 10
Candidate Starts for Francob_59:
(Start: 10 @48697 has 76 MA's), (13, 48718), (16, 48769), (Start: 19 @48793 has 1 MA's), (28, 49072), (34, 49132), (41, 49252), (51, 49357), (56, 49420), (57, 49426), (61, 49465), (68, 49555), (100, 49870), (104, 49909), (130, 50209), (135, 50248), (148, 50365), (153, 50398), (159, 50431), (162, 50449), (165, 50482), (169, 50521), (173, 50587), (174, 50593), (178, 50656), (182, 50728), (185, 50782), (187, 50791), (189, 50800), (190, 50809), (191, 50815), (197, 50929), (201, 50995), (205, 51007), (215, 51067), (216, 51070), (224, 51127), (225, 51133), (226, 51139), (228, 51145), (236, 51250), (240, 51301), (257, 51448), (268, 51517), (269, 51523), (273, 51535), (286, 51634), (288, 51643), (295, 51694), (299, 51727), (309, 51814), (317, 51865), (319, 51877),

Gene: FreddyDRoo_78 Start: 57859, Stop: 61143, Start Num: 10
Candidate Starts for FreddyDRoo_78:
(Start: 10 @57859 has 76 MA's), (14, 57904), (16, 57934), (18, 57952), (Start: 19 @57958 has 1 MA's), (21, 58024), (28, 58237), (29, 58243), (36, 58339), (41, 58417), (51, 58522), (56, 58585), (57, 58591), (61, 58630), (72, 58747), (83, 58846), (93, 58957), (95, 58987), (99, 59026), (116, 59269), (135, 59413), (136, 59428), (147, 59524), (148, 59530), (151, 59554), (162, 59614), (168, 59677), (169, 59686), (174, 59758), (178, 59821), (182, 59893), (185, 59947), (187, 59956), (189, 59965), (190, 59974), (191, 59980), (194, 60061), (201, 60160), (213, 60223), (224, 60292), (226, 60304), (243, 60490), (246, 60508), (256, 60604), (262, 60637), (269, 60688), (276, 60727), (277, 60733), (286, 60799), (289, 60829), (293, 60847), (298, 60883), (303, 60928), (304, 60937), (307, 60958), (309, 60979), (316, 61027), (319, 61042),

Gene: Genie2_82 Start: 58392, Stop: 61712, Start Num: 9
Candidate Starts for Genie2_82:
(Start: 9 @58392 has 36 MA's), (16, 58464), (Start: 19 @58488 has 1 MA's), (22, 58569), (28, 58767), (41, 58947), (46, 58995), (51, 59052), (55, 59103), (56, 59121), (58, 59130), (61, 59166), (70, 59274), (72, 59283), (80, 59355), (93, 59493), (99, 59562), (108, 59727), (116, 59805), (134, 59967), (137, 59991), (148, 60090), (162, 60174), (169, 60246), (182, 60450), (185, 60504), (187, 60513), (190, 60531), (191, 60537), (197, 60651), (205, 60729), (208, 60753), (213, 60780), (239, 61032), (240, 61035), (242, 61053), (244, 61065), (254, 61155), (263, 61215), (269, 61257), (276, 61296), (277, 61302), (281, 61329), (286, 61368), (293, 61416), (294, 61425), (303, 61497), (305, 61509), (306, 61518), (308, 61545), (309, 61548), (312, 61563), (316, 61596), (323, 61650), (325, 61665),

Gene: Gibbi_86 Start: 58555, Stop: 61875, Start Num: 9
Candidate Starts for Gibbi_86:
(Start: 9 @58555 has 36 MA's), (15, 58606), (16, 58627), (Start: 19 @58651 has 1 MA's), (22, 58732), (28, 58930), (41, 59110), (46, 59158), (47, 59161), (51, 59215), (55, 59266), (56, 59284), (58, 59293), (61, 59329), (70, 59437), (72, 59446), (93, 59656), (99, 59725), (108, 59890), (116, 59968), (125, 60037), (134, 60130), (148, 60253), (162, 60337), (168, 60400), (169, 60409), (182, 60613), (185, 60667), (187, 60676), (190, 60694), (191, 60700), (205, 60892), (208, 60916), (213, 60943), (229, 61051), (246, 61240), (254, 61318), (260, 61360), (263, 61378), (269, 61420), (276, 61459), (277, 61465), (281, 61492), (286, 61531), (293, 61579), (303, 61660), (306, 61681), (308, 61708), (309, 61711), (312, 61726), (316, 61759), (325, 61828),

Gene: Gilson_61 Start: 48597, Stop: 51887, Start Num: 10
Candidate Starts for Gilson_61:
(Start: 10 @48597 has 76 MA's), (12, 48612), (13, 48618), (16, 48669), (Start: 19 @48693 has 1 MA's), (25, 48882), (28, 48972), (34, 49032), (41, 49152), (51, 49257), (56, 49320), (57, 49326), (61, 49365), (89, 49638), (93, 49692), (95, 49722), (99, 49761), (104, 49809), (130, 50109), (135, 50148), (146, 50253), (147, 50259), (148, 50265), (153, 50298), (156, 50313), (159, 50331), (161, 50343), (162, 50349), (165, 50382), (168, 50412), (169, 50421), (173, 50487), (174, 50493), (175, 50502), (178, 50556), (182, 50628), (185, 50682), (187, 50691), (190, 50709), (191, 50715), (197, 50829), (201,

50895), (205, 50907), (215, 50967), (216, 50970), (225, 51033), (226, 51039), (228, 51045), (236, 51150), (239, 51198), (240, 51201), (249, 51270), (256, 51339), (257, 51348), (268, 51417), (269, 51423), (273, 51435), (277, 51468), (278, 51471), (286, 51534), (288, 51543), (289, 51564), (292, 51576), (298, 51618), (309, 51714), (313, 51750), (315, 51759), (319, 51777), (329, 51873),

Gene: Grayson_103 Start: 62973, Stop: 65801, Start Num: 73
Candidate Starts for Grayson_103:
(66, 62925), (69, 62955), (71, 62961), (Start: 73 @62973 has 3 MA's), (80, 63051), (83, 63078), (98, 63255), (101, 63270), (114, 63492), (115, 63495), (119, 63528), (157, 63816), (159, 63825), (162, 63843), (163, 63867), (169, 63915), (174, 63987), (176, 64011), (185, 64173), (204, 64398), (217, 64473), (278, 64998), (284, 65046), (295, 65130), (297, 65145), (302, 65196), (307, 65232), (317, 65307), (321, 65328), (336, 65523), (337, 65529), (341, 65577), (345, 65637), (346, 65646), (351, 65700), (353, 65706), (360, 65778),

Gene: HangryHippo_80 Start: 59162, Stop: 62446, Start Num: 10
Candidate Starts for HangryHippo_80:
(Start: 10 @59162 has 76 MA's), (14, 59207), (16, 59237), (18, 59255), (Start: 19 @59261 has 1 MA's), (28, 59540), (36, 59642), (41, 59720), (51, 59825), (56, 59888), (57, 59894), (61, 59933), (72, 60050), (81, 60134), (93, 60260), (95, 60290), (99, 60329), (100, 60338), (112, 60536), (135, 60716), (146, 60821), (147, 60827), (148, 60833), (162, 60917), (164, 60947), (169, 60989), (170, 61016), (172, 61049), (174, 61061), (178, 61124), (182, 61196), (185, 61250), (187, 61259), (189, 61268), (190, 61277), (191, 61283), (213, 61526), (224, 61595), (226, 61607), (235, 61712), (256, 61907), (262, 61940), (269, 61991), (276, 62030), (277, 62036), (286, 62102), (293, 62150), (298, 62186), (303, 62231), (304, 62240), (309, 62282), (315, 62327), (316, 62330), (319, 62345),

Gene: IchabodCrane_79 Start: 58144, Stop: 61464, Start Num: 9
Candidate Starts for IchabodCrane_79:
(Start: 9 @58144 has 36 MA's), (15, 58195), (16, 58216), (Start: 19 @58240 has 1 MA's), (22, 58321), (28, 58519), (41, 58699), (46, 58747), (47, 58750), (51, 58804), (52, 58807), (55, 58855), (56, 58873), (58, 58882), (61, 58918), (70, 59026), (72, 59035), (93, 59245), (99, 59314), (108, 59479), (116, 59557), (125, 59626), (134, 59719), (148, 59842), (162, 59926), (168, 59989), (169, 59998), (182, 60202), (185, 60256), (187, 60265), (190, 60283), (191, 60289), (205, 60481), (208, 60505), (213, 60532), (229, 60640), (246, 60829), (254, 60907), (260, 60949), (263, 60967), (269, 61009), (276, 61048), (277, 61054), (281, 61081), (286, 61120), (293, 61168), (303, 61249), (306, 61270), (308, 61297), (309, 61300), (312, 61315), (316, 61348), (325, 61417),

Gene: Jada_60 Start: 48523, Stop: 51813, Start Num: 10
Candidate Starts for Jada_60:
(Start: 10 @48523 has 76 MA's), (12, 48538), (13, 48544), (16, 48595), (Start: 19 @48619 has 1 MA's), (25, 48808), (28, 48898), (34, 48958), (41, 49078), (51, 49183), (56, 49246), (57, 49252), (61, 49291), (89, 49564), (93, 49618), (95, 49648), (99, 49687), (104, 49735), (130, 50035), (135, 50074), (146, 50179), (147, 50185), (148, 50191), (153, 50224), (156, 50239), (159, 50257), (161, 50269), (162, 50275), (165, 50308), (168, 50338), (169, 50347), (173, 50413), (174, 50419), (175, 50428), (178, 50482), (182, 50554), (185, 50608), (187, 50617), (190, 50635), (191, 50641), (197, 50755), (201, 50821), (205, 50833), (215, 50893), (216, 50896), (225, 50959), (226, 50965), (228, 50971), (236, 51076), (239, 51124), (240, 51127), (249, 51196), (256, 51265), (257, 51274), (268, 51343), (269, 51349), (273, 51361), (277, 51394), (278, 51397), (286, 51460), (288, 51469), (289, 51490), (292, 51502), (298, 51544), (309, 51640), (313, 51676), (315, 51685), (319, 51703), (329, 51799),

Gene: Jay2Jay_84 Start: 59915, Stop: 63199, Start Num: 10
Candidate Starts for Jay2Jay_84:
(Start: 10 @59915 has 76 MA's), (14, 59960), (16, 59990), (18, 60008), (Start: 19 @60014 has 1 MA's), (21, 60080), (28, 60293), (41, 60473), (51, 60578), (56, 60641), (57, 60647), (61, 60686), (68, 60776),

(72, 60803), (83, 60902), (93, 61013), (95, 61043), (99, 61082), (116, 61325), (120, 61355), (135, 61469), (136, 61484), (147, 61580), (148, 61586), (162, 61670), (168, 61733), (169, 61742), (170, 61769), (174, 61814), (178, 61877), (182, 61949), (185, 62003), (187, 62012), (189, 62021), (190, 62030), (191, 62036), (201, 62216), (213, 62279), (224, 62348), (235, 62465), (245, 62555), (250, 62597), (256, 62660), (262, 62693), (269, 62744), (276, 62783), (277, 62789), (286, 62855), (293, 62903), (298, 62939), (303, 62984), (304, 62993), (309, 63035), (316, 63083), (319, 63098),

Gene: JimJam_82 Start: 58518, Stop: 61838, Start Num: 9
Candidate Starts for JimJam_82:
(Start: 9 @58518 has 36 MA's), (15, 58569), (16, 58590), (Start: 19 @58614 has 1 MA's), (22, 58695), (28, 58893), (41, 59073), (46, 59121), (47, 59124), (51, 59178), (55, 59229), (56, 59247), (58, 59256), (61, 59292), (70, 59400), (72, 59409), (93, 59619), (99, 59688), (108, 59853), (116, 59931), (125, 60000), (134, 60093), (148, 60216), (162, 60300), (168, 60363), (169, 60372), (182, 60576), (185, 60630), (187, 60639), (190, 60657), (191, 60663), (205, 60855), (208, 60879), (213, 60906), (229, 61014), (246, 61203), (254, 61281), (260, 61323), (263, 61341), (269, 61383), (276, 61422), (277, 61428), (281, 61455), (286, 61494), (293, 61542), (303, 61623), (306, 61644), (308, 61671), (309, 61674), (312, 61689), (316, 61722), (325, 61791),

Gene: Jollison_81 Start: 58400, Stop: 61720, Start Num: 9
Candidate Starts for Jollison_81:
(Start: 9 @58400 has 36 MA's), (15, 58451), (16, 58472), (Start: 19 @58496 has 1 MA's), (22, 58577), (28, 58775), (41, 58955), (46, 59003), (51, 59060), (55, 59111), (56, 59129), (58, 59138), (61, 59174), (70, 59282), (72, 59291), (93, 59501), (99, 59570), (108, 59735), (116, 59813), (134, 59975), (148, 60098), (151, 60122), (162, 60182), (168, 60245), (169, 60254), (182, 60458), (185, 60512), (187, 60521), (190, 60539), (191, 60545), (202, 60728), (205, 60737), (208, 60761), (213, 60788), (229, 60896), (246, 61085), (254, 61163), (260, 61205), (263, 61223), (269, 61265), (276, 61304), (277, 61310), (281, 61337), (286, 61376), (293, 61424), (294, 61433), (303, 61505), (306, 61526), (308, 61553), (309, 61556), (312, 61571), (316, 61604), (325, 61673),

Gene: Karimac_81 Start: 58549, Stop: 61869, Start Num: 9
Candidate Starts for Karimac_81:
(Start: 9 @58549 has 36 MA's), (15, 58600), (16, 58621), (Start: 19 @58645 has 1 MA's), (22, 58726), (28, 58924), (41, 59104), (46, 59152), (47, 59155), (51, 59209), (55, 59260), (56, 59278), (58, 59287), (61, 59323), (70, 59431), (72, 59440), (93, 59650), (99, 59719), (108, 59884), (116, 59962), (125, 60031), (134, 60124), (148, 60247), (162, 60331), (168, 60394), (169, 60403), (182, 60607), (185, 60661), (187, 60670), (190, 60688), (191, 60694), (205, 60886), (208, 60910), (213, 60937), (229, 61045), (246, 61234), (254, 61312), (260, 61354), (263, 61372), (269, 61414), (276, 61453), (277, 61459), (281, 61486), (286, 61525), (293, 61573), (303, 61654), (306, 61675), (308, 61702), (309, 61705), (312, 61720), (316, 61753), (325, 61822),

Gene: Karp_59 Start: 49450, Stop: 52740, Start Num: 10
Candidate Starts for Karp_59:
(5, 49432), (Start: 10 @49450 has 76 MA's), (12, 49465), (13, 49471), (15, 49501), (16, 49522), (18, 49540), (Start: 19 @49546 has 1 MA's), (24, 49714), (26, 49756), (28, 49825), (34, 49885), (40, 49999), (41, 50005), (51, 50110), (56, 50173), (57, 50179), (61, 50218), (80, 50407), (86, 50464), (89, 50491), (92, 50536), (114, 50842), (119, 50878), (130, 50962), (135, 51001), (146, 51106), (148, 51118), (153, 51151), (158, 51181), (159, 51184), (161, 51196), (162, 51202), (169, 51274), (173, 51340), (174, 51346), (178, 51409), (182, 51481), (185, 51535), (187, 51544), (190, 51562), (191, 51568), (197, 51682), (201, 51748), (205, 51760), (215, 51820), (216, 51823), (224, 51880), (225, 51886), (228, 51898), (232, 51934), (236, 52003), (257, 52201), (263, 52234), (268, 52270), (269, 52276), (273, 52288), (283, 52369), (286, 52387), (288, 52396), (289, 52417), (295, 52447), (301, 52504), (309, 52567), (319, 52630),

Gene: Kenrey_62 Start: 48788, Stop: 52078, Start Num: 10
Candidate Starts for Kenrey_62:
(Start: 10 @48788 has 76 MA's), (13, 48809), (15, 48839), (16, 48860), (Start: 19 @48884 has 1 MA's), (28, 49163), (34, 49223), (40, 49337), (41, 49343), (42, 49355), (51, 49448), (56, 49511), (57, 49517), (61, 49556), (64, 49583), (83, 49772), (85, 49787), (99, 49952), (104, 50000), (130, 50300), (135, 50339), (148, 50456), (153, 50489), (159, 50522), (162, 50540), (165, 50573), (169, 50612), (173, 50678), (174, 50684), (178, 50747), (182, 50819), (185, 50873), (187, 50882), (190, 50900), (191, 50906), (197, 51020), (201, 51086), (205, 51098), (215, 51158), (216, 51161), (228, 51236), (234, 51299), (236, 51341), (249, 51461), (257, 51539), (268, 51608), (269, 51614), (283, 51707), (286, 51725), (288, 51734), (289, 51755), (295, 51785), (299, 51818), (309, 51905), (311, 51917), (313, 51941), (319, 51968),

Gene: KentuckyRacer_82 Start: 58333, Stop: 61653, Start Num: 9
Candidate Starts for KentuckyRacer_82:
(Start: 9 @58333 has 36 MA's), (15, 58384), (16, 58405), (Start: 19 @58429 has 1 MA's), (22, 58510), (28, 58708), (41, 58888), (46, 58936), (51, 58993), (55, 59044), (56, 59062), (58, 59071), (61, 59107), (70, 59215), (72, 59224), (93, 59434), (99, 59503), (108, 59668), (116, 59746), (125, 59815), (134, 59908), (148, 60031), (162, 60115), (168, 60178), (169, 60187), (182, 60391), (185, 60445), (187, 60454), (190, 60472), (191, 60478), (205, 60670), (208, 60694), (213, 60721), (229, 60829), (246, 61018), (254, 61096), (260, 61138), (263, 61156), (269, 61198), (276, 61237), (277, 61243), (281, 61270), (286, 61309), (293, 61357), (303, 61438), (306, 61459), (308, 61486), (309, 61489), (312, 61504), (316, 61537), (325, 61606),

Gene: Larnav_80 Start: 59147, Stop: 62431, Start Num: 10
Candidate Starts for Larnav_80:
(Start: 10 @59147 has 76 MA's), (14, 59192), (16, 59222), (18, 59240), (Start: 19 @59246 has 1 MA's), (28, 59525), (36, 59627), (41, 59705), (51, 59810), (56, 59873), (57, 59879), (61, 59918), (72, 60035), (81, 60119), (93, 60245), (95, 60275), (99, 60314), (112, 60521), (135, 60701), (146, 60806), (147, 60812), (148, 60818), (162, 60902), (164, 60932), (169, 60974), (170, 61001), (172, 61034), (174, 61046), (178, 61109), (182, 61181), (185, 61235), (187, 61244), (189, 61253), (190, 61262), (191, 61268), (213, 61511), (224, 61580), (226, 61592), (235, 61697), (256, 61892), (262, 61925), (269, 61976), (277, 62021), (286, 62087), (293, 62135), (303, 62216), (304, 62225), (309, 62267), (315, 62312), (316, 62315), (319, 62330),

Gene: Leo04_81 Start: 59662, Stop: 62946, Start Num: 10
Candidate Starts for Leo04_81:
(Start: 10 @59662 has 76 MA's), (14, 59707), (16, 59737), (18, 59755), (Start: 19 @59761 has 1 MA's), (28, 60040), (36, 60142), (41, 60220), (51, 60325), (56, 60388), (57, 60394), (61, 60433), (72, 60550), (81, 60634), (93, 60760), (95, 60790), (99, 60829), (100, 60838), (112, 61036), (135, 61216), (146, 61321), (147, 61327), (148, 61333), (162, 61417), (164, 61447), (169, 61489), (170, 61516), (172, 61549), (174, 61561), (178, 61624), (182, 61696), (185, 61750), (187, 61759), (189, 61768), (190, 61777), (191, 61783), (213, 62026), (224, 62095), (226, 62107), (235, 62212), (256, 62407), (262, 62440), (269, 62491), (276, 62530), (277, 62536), (286, 62602), (293, 62650), (298, 62686), (303, 62731), (304, 62740), (309, 62782), (315, 62827), (316, 62830), (319, 62845),

Gene: Liandry_78 Start: 58566, Stop: 61850, Start Num: 10
Candidate Starts for Liandry_78:
(Start: 10 @58566 has 76 MA's), (14, 58611), (16, 58641), (18, 58659), (Start: 19 @58665 has 1 MA's), (21, 58731), (28, 58944), (29, 58950), (36, 59046), (41, 59124), (51, 59229), (56, 59292), (57, 59298), (61, 59337), (72, 59454), (83, 59553), (93, 59664), (95, 59694), (99, 59733), (116, 59976), (135, 60120), (136, 60135), (147, 60231), (148, 60237), (151, 60261), (162, 60321), (168, 60384), (169, 60393), (174, 60465), (178, 60528), (182, 60600), (185, 60654), (187, 60663), (189, 60672), (190, 60681), (191, 60687), (194, 60768), (201, 60867), (213, 60930), (224, 60999), (226, 61011), (243,

61197), (246, 61215), (256, 61311), (262, 61344), (269, 61395), (276, 61434), (277, 61440), (286, 61506), (289, 61536), (293, 61554), (298, 61590), (303, 61635), (304, 61644), (307, 61665), (309, 61686), (316, 61734), (319, 61749),

Gene: LilMartin_77 Start: 57396, Stop: 60680, Start Num: 10
Candidate Starts for LilMartin_77:
(2, 57312), (3, 57339), (Start: 10 @57396 has 76 MA's), (14, 57441), (16, 57471), (18, 57489), (Start: 19 @57495 has 1 MA's), (28, 57774), (36, 57876), (41, 57954), (42, 57966), (51, 58059), (56, 58122), (57, 58128), (61, 58167), (72, 58284), (76, 58323), (83, 58383), (93, 58494), (95, 58524), (103, 58602), (114, 58791), (117, 58815), (120, 58836), (135, 58950), (136, 58965), (146, 59055), (147, 59061), (148, 59067), (151, 59091), (152, 59094), (162, 59151), (165, 59184), (168, 59214), (169, 59223), (174, 59295), (175, 59304), (178, 59358), (182, 59430), (185, 59484), (187, 59493), (189, 59502), (190, 59511), (191, 59517), (194, 59598), (213, 59760), (224, 59829), (226, 59841), (238, 59955), (267, 60216), (269, 60225), (286, 60336), (293, 60384), (303, 60465), (309, 60516), (316, 60564), (319, 60579),

Gene: LilSaint_78 Start: 57654, Stop: 60938, Start Num: 10
Candidate Starts for LilSaint_78:
(Start: 10 @57654 has 76 MA's), (14, 57699), (16, 57729), (Start: 19 @57753 has 1 MA's), (28, 58032), (36, 58134), (39, 58188), (41, 58212), (51, 58317), (56, 58380), (57, 58386), (61, 58425), (72, 58542), (83, 58641), (93, 58752), (99, 58821), (103, 58860), (117, 59073), (120, 59094), (135, 59208), (136, 59223), (146, 59313), (147, 59319), (148, 59325), (162, 59409), (168, 59472), (169, 59481), (170, 59508), (174, 59553), (178, 59616), (182, 59688), (185, 59742), (187, 59751), (189, 59760), (190, 59769), (191, 59775), (213, 60018), (224, 60087), (226, 60099), (227, 60102), (269, 60483), (281, 60555), (286, 60594), (293, 60642), (299, 60687), (303, 60723), (304, 60732), (309, 60774), (316, 60822), (319, 60837), (323, 60876),

Gene: Limpid_57 Start: 47705, Stop: 50995, Start Num: 10
Candidate Starts for Limpid_57:
(Start: 10 @47705 has 76 MA's), (16, 47777), (18, 47795), (Start: 19 @47801 has 1 MA's), (28, 48080), (34, 48140), (51, 48365), (56, 48428), (59, 48455), (60, 48470), (61, 48473), (93, 48800), (131, 49229), (135, 49256), (140, 49310), (147, 49367), (148, 49373), (169, 49529), (170, 49556), (174, 49601), (178, 49664), (181, 49733), (182, 49736), (185, 49790), (187, 49799), (189, 49808), (190, 49817), (191, 49823), (197, 49937), (205, 50015), (208, 50039), (215, 50075), (224, 50135), (225, 50141), (236, 50258), (242, 50327), (257, 50456), (259, 50468), (268, 50525), (269, 50531), (286, 50642), (288, 50651), (289, 50672), (295, 50702), (298, 50726), (299, 50735), (309, 50822), (317, 50873), (319, 50885), (328, 50972),

Gene: LukeCage_81 Start: 58309, Stop: 61629, Start Num: 9
Candidate Starts for LukeCage_81:
(Start: 9 @58309 has 36 MA's), (15, 58360), (16, 58381), (Start: 19 @58405 has 1 MA's), (22, 58486), (28, 58684), (41, 58864), (46, 58912), (47, 58915), (51, 58969), (55, 59020), (56, 59038), (58, 59047), (61, 59083), (72, 59200), (93, 59410), (99, 59479), (116, 59722), (120, 59752), (134, 59884), (148, 60007), (162, 60091), (169, 60163), (182, 60367), (185, 60421), (187, 60430), (190, 60448), (191, 60454), (205, 60646), (208, 60670), (213, 60697), (229, 60805), (238, 60904), (239, 60949), (244, 60982), (246, 60994), (254, 61072), (260, 61114), (263, 61132), (269, 61174), (276, 61213), (277, 61219), (281, 61246), (286, 61285), (293, 61333), (294, 61342), (303, 61414), (305, 61426), (306, 61435), (308, 61462), (309, 61465), (315, 61510), (316, 61513), (323, 61567), (325, 61582),

Gene: Lululemon_79 Start: 58543, Stop: 61827, Start Num: 10
Candidate Starts for Lululemon_79:
(Start: 10 @58543 has 76 MA's), (14, 58588), (16, 58618), (18, 58636), (Start: 19 @58642 has 1 MA's), (28, 58921), (36, 59023), (41, 59101), (51, 59206), (56, 59269), (57, 59275), (61, 59314), (72, 59431),

(81, 59515), (93, 59641), (95, 59671), (99, 59710), (100, 59719), (112, 59917), (135, 60097), (146, 60202), (147, 60208), (148, 60214), (162, 60298), (164, 60328), (169, 60370), (170, 60397), (172, 60430), (174, 60442), (178, 60505), (182, 60577), (185, 60631), (187, 60640), (189, 60649), (190, 60658), (191, 60664), (213, 60907), (224, 60976), (226, 60988), (235, 61093), (256, 61288), (262, 61321), (269, 61372), (276, 61411), (277, 61417), (286, 61483), (293, 61531), (298, 61567), (303, 61612), (304, 61621), (309, 61663), (315, 61708), (316, 61711), (319, 61726),

Gene: Marsus_78 Start: 57668, Stop: 60952, Start Num: 10
Candidate Starts for Marsus_78:
(2, 57584), (3, 57611), (Start: 10 @57668 has 76 MA's), (14, 57713), (16, 57743), (18, 57761), (Start: 19 @57767 has 1 MA's), (28, 58046), (36, 58148), (41, 58226), (42, 58238), (48, 58313), (51, 58331), (56, 58394), (57, 58400), (61, 58439), (72, 58556), (83, 58655), (93, 58766), (95, 58796), (103, 58874), (117, 59087), (120, 59108), (135, 59222), (136, 59237), (146, 59327), (147, 59333), (148, 59339), (151, 59363), (152, 59366), (162, 59423), (165, 59456), (168, 59486), (169, 59495), (174, 59567), (175, 59576), (178, 59630), (182, 59702), (185, 59756), (187, 59765), (189, 59774), (190, 59783), (191, 59789), (194, 59870), (213, 60032), (224, 60101), (226, 60113), (238, 60227), (269, 60497), (286, 60608), (293, 60656), (298, 60692), (303, 60737), (309, 60788), (316, 60836), (319, 60851),

Gene: Maupel_60 Start: 48597, Stop: 51887, Start Num: 10
Candidate Starts for Maupel_60:
(Start: 10 @48597 has 76 MA's), (12, 48612), (13, 48618), (16, 48669), (Start: 19 @48693 has 1 MA's), (25, 48882), (28, 48972), (34, 49032), (41, 49152), (51, 49257), (56, 49320), (57, 49326), (61, 49365), (89, 49638), (93, 49692), (95, 49722), (99, 49761), (104, 49809), (130, 50109), (135, 50148), (146, 50253), (147, 50259), (148, 50265), (153, 50298), (156, 50313), (159, 50331), (161, 50343), (162, 50349), (165, 50382), (168, 50412), (169, 50421), (173, 50487), (174, 50493), (175, 50502), (178, 50556), (182, 50628), (185, 50682), (187, 50691), (190, 50709), (191, 50715), (197, 50829), (201, 50895), (205, 50907), (215, 50967), (216, 50970), (225, 51033), (226, 51039), (228, 51045), (236, 51150), (239, 51198), (240, 51201), (249, 51270), (256, 51339), (257, 51348), (268, 51417), (269, 51423), (273, 51435), (277, 51468), (278, 51471), (286, 51534), (288, 51543), (289, 51564), (292, 51576), (298, 51618), (309, 51714), (313, 51750), (315, 51759), (319, 51777), (329, 51873),

Gene: MeganTheeKilla_59 Start: 47958, Stop: 51248, Start Num: 10
Candidate Starts for MeganTheeKilla_59:
(Start: 10 @47958 has 76 MA's), (12, 47973), (13, 47979), (16, 48030), (Start: 19 @48054 has 1 MA's), (25, 48243), (28, 48333), (34, 48393), (41, 48513), (51, 48618), (56, 48681), (57, 48687), (61, 48726), (89, 48999), (93, 49053), (95, 49083), (99, 49122), (104, 49170), (130, 49470), (135, 49509), (146, 49614), (147, 49620), (148, 49626), (153, 49659), (156, 49674), (159, 49692), (161, 49704), (162, 49710), (165, 49743), (168, 49773), (169, 49782), (173, 49848), (174, 49854), (175, 49863), (178, 49917), (182, 49989), (185, 50043), (187, 50052), (190, 50070), (191, 50076), (197, 50190), (201, 50256), (205, 50268), (215, 50328), (216, 50331), (225, 50394), (226, 50400), (228, 50406), (236, 50511), (239, 50559), (240, 50562), (249, 50631), (256, 50700), (257, 50709), (268, 50778), (269, 50784), (273, 50796), (277, 50829), (278, 50832), (286, 50895), (288, 50904), (289, 50925), (292, 50937), (298, 50979), (309, 51075), (313, 51111), (315, 51120), (319, 51138), (329, 51234),

Gene: Mildred21_78 Start: 57592, Stop: 60879, Start Num: 10
Candidate Starts for Mildred21_78:
(Start: 10 @57592 has 76 MA's), (14, 57640), (16, 57670), (18, 57688), (Start: 19 @57694 has 1 MA's), (21, 57760), (28, 57973), (29, 57979), (36, 58075), (41, 58153), (51, 58258), (56, 58321), (57, 58327), (61, 58366), (72, 58483), (83, 58582), (93, 58693), (95, 58723), (99, 58762), (103, 58801), (116, 59005), (120, 59035), (135, 59149), (136, 59164), (147, 59260), (148, 59266), (156, 59314), (162, 59350), (168, 59413), (169, 59422), (174, 59494), (178, 59557), (179, 59608), (182, 59629), (185, 59683), (187, 59692), (189, 59701), (190, 59710), (191, 59716), (213, 59959), (224, 60028), (226, 60040), (235, 60145), (262, 60373), (269, 60424), (277, 60469), (286, 60535), (289, 60565), (293,

60583), (298, 60619), (303, 60664), (309, 60715), (316, 60763), (319, 60778),

Gene: MindFlayer_79 Start: 58051, Stop: 61371, Start Num: 9
Candidate Starts for MindFlayer_79:
(Start: 9 @58051 has 36 MA's), (15, 58102), (16, 58123), (Start: 19 @58147 has 1 MA's), (22, 58228), (28, 58426), (41, 58606), (46, 58654), (47, 58657), (51, 58711), (55, 58762), (56, 58780), (58, 58789), (61, 58825), (70, 58933), (72, 58942), (93, 59152), (99, 59221), (108, 59386), (116, 59464), (134, 59626), (142, 59713), (148, 59749), (162, 59833), (168, 59896), (169, 59905), (182, 60109), (185, 60163), (187, 60172), (190, 60190), (191, 60196), (202, 60379), (205, 60388), (208, 60412), (213, 60439), (229, 60547), (238, 60646), (246, 60736), (254, 60814), (260, 60856), (263, 60874), (269, 60916), (276, 60955), (277, 60961), (281, 60988), (286, 61027), (293, 61075), (294, 61084), (303, 61156), (306, 61177), (308, 61204), (309, 61207), (312, 61222), (316, 61255), (325, 61324),

Gene: Moab_61 Start: 49797, Stop: 53087, Start Num: 10
Candidate Starts for Moab_61:
(Start: 10 @49797 has 76 MA's), (12, 49812), (16, 49869), (18, 49887), (Start: 19 @49893 has 1 MA's), (26, 50103), (28, 50172), (29, 50178), (30, 50202), (34, 50232), (40, 50346), (41, 50352), (42, 50364), (51, 50457), (56, 50520), (57, 50526), (61, 50565), (68, 50655), (83, 50781), (93, 50892), (99, 50961), (102, 50988), (107, 51105), (130, 51309), (135, 51348), (144, 51447), (147, 51459), (148, 51465), (153, 51498), (159, 51531), (162, 51549), (168, 51612), (169, 51621), (173, 51687), (174, 51693), (178, 51756), (182, 51828), (185, 51882), (187, 51891), (189, 51900), (190, 51909), (191, 51915), (198, 52041), (205, 52107), (215, 52167), (216, 52170), (224, 52227), (228, 52245), (236, 52350), (239, 52398), (246, 52443), (257, 52548), (268, 52617), (269, 52623), (286, 52734), (288, 52743), (289, 52764), (299, 52827), (309, 52914), (317, 52965), (319, 52977), (325, 53031),

Gene: Mugiwara_81 Start: 58808, Stop: 62128, Start Num: 9
Candidate Starts for Mugiwara_81:
(Start: 9 @58808 has 36 MA's), (15, 58859), (16, 58880), (Start: 19 @58904 has 1 MA's), (22, 58985), (28, 59183), (41, 59363), (46, 59411), (51, 59468), (52, 59471), (55, 59519), (56, 59537), (58, 59546), (61, 59582), (72, 59699), (93, 59909), (99, 59978), (108, 60143), (116, 60221), (134, 60383), (148, 60506), (162, 60590), (169, 60662), (182, 60866), (185, 60920), (187, 60929), (190, 60947), (191, 60953), (205, 61145), (208, 61169), (213, 61196), (229, 61304), (239, 61448), (244, 61481), (246, 61493), (254, 61571), (260, 61613), (263, 61631), (269, 61673), (276, 61712), (277, 61718), (281, 61745), (286, 61784), (293, 61832), (294, 61841), (303, 61913), (306, 61934), (308, 61961), (309, 61964), (315, 62009), (316, 62012), (323, 62066), (325, 62081),

Gene: MulchMansion_77 Start: 57396, Stop: 60680, Start Num: 10
Candidate Starts for MulchMansion_77:
(2, 57312), (3, 57339), (Start: 10 @57396 has 76 MA's), (14, 57441), (16, 57471), (18, 57489), (Start: 19 @57495 has 1 MA's), (28, 57774), (36, 57876), (41, 57954), (42, 57966), (51, 58059), (56, 58122), (57, 58128), (61, 58167), (72, 58284), (76, 58323), (83, 58383), (93, 58494), (95, 58524), (103, 58602), (114, 58791), (117, 58815), (120, 58836), (135, 58950), (136, 58965), (146, 59055), (147, 59061), (148, 59067), (151, 59091), (152, 59094), (162, 59151), (165, 59184), (168, 59214), (169, 59223), (174, 59295), (175, 59304), (178, 59358), (182, 59430), (185, 59484), (187, 59493), (189, 59502), (190, 59511), (191, 59517), (194, 59598), (213, 59760), (224, 59829), (226, 59841), (238, 59955), (267, 60216), (269, 60225), (286, 60336), (293, 60384), (303, 60465), (309, 60516), (316, 60564), (319, 60579),

Gene: Muntaha_58 Start: 50102, Stop: 53389, Start Num: 10
Candidate Starts for Muntaha_58:
(Start: 10 @50102 has 76 MA's), (16, 50174), (Start: 19 @50198 has 1 MA's), (23, 50294), (28, 50477), (34, 50537), (38, 50627), (41, 50657), (43, 50672), (45, 50699), (46, 50705), (51, 50762), (56, 50825), (61, 50870), (65, 50918), (87, 51122), (92, 51188), (93, 51197), (106, 51398), (108, 51431), (116,

51509), (120, 51539), (130, 51614), (135, 51653), (136, 51668), (147, 51764), (148, 51770), (153, 51803), (161, 51848), (162, 51854), (167, 51902), (169, 51926), (170, 51953), (171, 51971), (174, 51998), (178, 52061), (182, 52133), (185, 52187), (187, 52196), (190, 52214), (191, 52220), (198, 52346), (201, 52400), (205, 52412), (213, 52463), (215, 52472), (224, 52532), (240, 52706), (247, 52757), (259, 52865), (268, 52922), (269, 52928), (278, 52976), (286, 53039), (288, 53048), (304, 53177), (309, 53219), (312, 53234), (319, 53282),

Gene: Navo_77 Start: 58485, Stop: 61769, Start Num: 10
Candidate Starts for Navo_77:
(Start: 10 @58485 has 76 MA's), (14, 58530), (16, 58560), (18, 58578), (Start: 19 @58584 has 1 MA's), (28, 58863), (29, 58869), (36, 58965), (41, 59043), (51, 59148), (56, 59211), (57, 59217), (61, 59256), (72, 59373), (83, 59472), (93, 59583), (95, 59613), (99, 59652), (116, 59895), (120, 59925), (135, 60039), (136, 60054), (146, 60144), (147, 60150), (148, 60156), (162, 60240), (168, 60303), (169, 60312), (174, 60384), (178, 60447), (182, 60519), (185, 60573), (187, 60582), (189, 60591), (190, 60600), (191, 60606), (194, 60687), (201, 60786), (213, 60849), (224, 60918), (226, 60930), (243, 61116), (246, 61134), (256, 61230), (262, 61263), (269, 61314), (277, 61359), (286, 61425), (289, 61455), (293, 61473), (298, 61509), (303, 61554), (307, 61584), (309, 61605), (316, 61653), (319, 61668),

Gene: NiceHouse_90 Start: 64900, Stop: 68652, Start Num: 11
Candidate Starts for NiceHouse_90:
(Start: 11 @64900 has 1 MA's), (14, 64942), (32, 65314), (33, 65326), (38, 65425), (41, 65455), (43, 65470), (46, 65503), (47, 65506), (52, 65563), (53, 65581), (55, 65605), (57, 65629), (61, 65668), (62, 65683), (63, 65689), (64, 65695), (67, 65755), (76, 65824), (83, 65881), (87, 65917), (89, 65938), (101, 66073), (105, 66148), (110, 66256), (123, 66379), (131, 66457), (133, 66469), (136, 66499), (139, 66520), (150, 66613), (151, 66619), (155, 66637), (163, 66703), (166, 66721), (169, 66751), (170, 66778), (174, 66823), (185, 67009), (188, 67024), (190, 67036), (210, 67279), (216, 67306), (218, 67312), (243, 67564), (246, 67588), (248, 67612), (252, 67651), (259, 67708), (261, 67714), (263, 67735), (264, 67744), (272, 67798), (274, 67813), (275, 67825), (284, 67888), (285, 67894), (291, 67945), (295, 67972), (314, 68137), (317, 68149), (332, 68308), (333, 68332), (334, 68353), (337, 68371), (338, 68398), (339, 68401), (341, 68422), (346, 68491), (347, 68494), (356, 68590), (357, 68596), (359, 68620), (360, 68626),

Gene: NootNoot_75 Start: 57480, Stop: 60764, Start Num: 10
Candidate Starts for NootNoot_75:
(Start: 10 @57480 has 76 MA's), (14, 57525), (16, 57555), (18, 57573), (Start: 19 @57579 has 1 MA's), (21, 57645), (28, 57858), (29, 57864), (36, 57960), (41, 58038), (51, 58143), (56, 58206), (57, 58212), (61, 58251), (72, 58368), (83, 58467), (93, 58578), (95, 58608), (99, 58647), (116, 58890), (135, 59034), (136, 59049), (147, 59145), (148, 59151), (151, 59175), (162, 59235), (168, 59298), (169, 59307), (174, 59379), (178, 59442), (182, 59514), (185, 59568), (187, 59577), (189, 59586), (190, 59595), (191, 59601), (194, 59682), (201, 59781), (213, 59844), (224, 59913), (226, 59925), (243, 60111), (246, 60129), (256, 60225), (262, 60258), (269, 60309), (277, 60354), (286, 60420), (289, 60450), (293, 60468), (298, 60504), (303, 60549), (304, 60558), (307, 60579), (309, 60600), (316, 60648), (319, 60663),

Gene: Nova53_73 Start: 59972, Stop: 63763, Start Num: 6
Candidate Starts for Nova53_73:
(Start: 6 @59972 has 1 MA's), (7, 59978), (17, 60059), (27, 60308), (33, 60410), (42, 60551), (49, 60629), (50, 60641), (54, 60674), (55, 60695), (58, 60722), (59, 60740), (61, 60758), (75, 60905), (77, 60920), (79, 60941), (83, 60974), (88, 61019), (97, 61124), (98, 61151), (108, 61325), (113, 61385), (126, 61499), (128, 61535), (130, 61541), (141, 61649), (145, 61676), (155, 61733), (160, 61760), (162, 61775), (166, 61817), (169, 61847), (174, 61919), (176, 61943), (185, 62105), (190, 62132), (195, 62240), (196, 62246), (199, 62282), (200, 62312), (203, 62327), (210, 62381), (220, 62426),

(221, 62441), (231, 62519), (233, 62552), (239, 62654), (251, 62765), (255, 62789), (259, 62825), (271, 62903), (278, 62948), (280, 62963), (282, 62987), (284, 62996), (288, 63020), (301, 63137), (317, 63257), (318, 63260), (323, 63311), (326, 63338), (330, 63392), (331, 63398), (332, 63416), (333, 63440), (335, 63467), (336, 63473), (337, 63479), (341, 63530), (343, 63551), (344, 63563), (349, 63620), (351, 63653), (357, 63704), (361, 63743), (362, 63746),

Gene: PacManQ_79 Start: 58543, Stop: 61827, Start Num: 10
Candidate Starts for PacManQ_79:
(Start: 10 @58543 has 76 MA's), (14, 58588), (16, 58618), (18, 58636), (Start: 19 @58642 has 1 MA's), (28, 58921), (36, 59023), (41, 59101), (51, 59206), (56, 59269), (57, 59275), (61, 59314), (72, 59431), (81, 59515), (93, 59641), (95, 59671), (99, 59710), (100, 59719), (112, 59917), (135, 60097), (146, 60202), (147, 60208), (148, 60214), (162, 60298), (164, 60328), (169, 60370), (170, 60397), (172, 60430), (174, 60442), (178, 60505), (182, 60577), (185, 60631), (187, 60640), (189, 60649), (190, 60658), (191, 60664), (213, 60907), (224, 60976), (226, 60988), (235, 61093), (256, 61288), (262, 61321), (269, 61372), (276, 61411), (277, 61417), (286, 61483), (293, 61531), (298, 61567), (303, 61612), (304, 61621), (309, 61663), (315, 61708), (316, 61711), (319, 61726),

Gene: Paradiddles_75 Start: 57744, Stop: 61028, Start Num: 10
Candidate Starts for Paradiddles_75:
(Start: 10 @57744 has 76 MA's), (14, 57789), (16, 57819), (18, 57837), (Start: 19 @57843 has 1 MA's), (21, 57909), (28, 58122), (29, 58128), (36, 58224), (41, 58302), (51, 58407), (56, 58470), (57, 58476), (61, 58515), (72, 58632), (83, 58731), (93, 58842), (95, 58872), (99, 58911), (116, 59154), (135, 59298), (136, 59313), (146, 59403), (147, 59409), (148, 59415), (151, 59439), (162, 59499), (168, 59562), (169, 59571), (174, 59643), (178, 59706), (182, 59778), (185, 59832), (187, 59841), (189, 59850), (190, 59859), (191, 59865), (194, 59946), (201, 60045), (213, 60108), (224, 60177), (226, 60189), (243, 60375), (246, 60393), (256, 60489), (262, 60522), (269, 60573), (276, 60612), (277, 60618), (286, 60684), (289, 60714), (293, 60732), (298, 60768), (303, 60813), (304, 60822), (307, 60843), (309, 60864), (316, 60912), (319, 60927),

Gene: Patelgo_60 Start: 49984, Stop: 53274, Start Num: 10
Candidate Starts for Patelgo_60:
(Start: 10 @49984 has 76 MA's), (12, 49999), (16, 50056), (18, 50074), (Start: 19 @50080 has 1 MA's), (26, 50290), (28, 50359), (29, 50365), (30, 50389), (34, 50419), (40, 50533), (41, 50539), (42, 50551), (51, 50644), (56, 50707), (57, 50713), (61, 50752), (68, 50842), (83, 50968), (93, 51079), (99, 51148), (102, 51175), (130, 51496), (135, 51535), (144, 51634), (147, 51646), (148, 51652), (151, 51676), (153, 51685), (159, 51718), (162, 51736), (168, 51799), (169, 51808), (173, 51874), (174, 51880), (178, 51943), (182, 52015), (185, 52069), (187, 52078), (189, 52087), (190, 52096), (191, 52102), (198, 52228), (205, 52294), (215, 52354), (216, 52357), (224, 52414), (228, 52432), (234, 52495), (236, 52537), (239, 52585), (257, 52735), (268, 52804), (269, 52810), (286, 52921), (288, 52930), (289, 52951), (299, 53014), (309, 53101), (317, 53152), (319, 53164), (325, 53218),

Gene: Peebs_79 Start: 58897, Stop: 62181, Start Num: 10
Candidate Starts for Peebs_79:
(Start: 10 @58897 has 76 MA's), (14, 58942), (16, 58972), (18, 58990), (Start: 19 @58996 has 1 MA's), (28, 59275), (36, 59377), (41, 59455), (51, 59560), (56, 59623), (57, 59629), (61, 59668), (72, 59785), (81, 59869), (93, 59995), (95, 60025), (99, 60064), (100, 60073), (135, 60451), (146, 60556), (147, 60562), (148, 60568), (151, 60592), (162, 60652), (164, 60682), (165, 60685), (169, 60724), (170, 60751), (174, 60796), (178, 60859), (182, 60931), (185, 60985), (187, 60994), (189, 61003), (190, 61012), (191, 61018), (213, 61261), (224, 61330), (226, 61342), (235, 61447), (256, 61642), (262, 61675), (269, 61726), (277, 61771), (286, 61837), (293, 61885), (298, 61921), (303, 61966), (304, 61975), (309, 62017), (315, 62062), (316, 62065), (319, 62080),

Gene: Pepperwood_80 Start: 59030, Stop: 62314, Start Num: 10

Candidate Starts for Pepperwood_80:
(Start: 10 @59030 has 76 MA's), (14, 59075), (16, 59105), (18, 59123), (Start: 19 @59129 has 1 MA's), (28, 59408), (41, 59588), (51, 59693), (56, 59756), (57, 59762), (61, 59801), (72, 59918), (81, 60002), (93, 60128), (95, 60158), (99, 60197), (100, 60206), (112, 60404), (135, 60584), (146, 60689), (147, 60695), (148, 60701), (162, 60785), (164, 60815), (169, 60857), (170, 60884), (172, 60917), (174, 60929), (178, 60992), (182, 61064), (185, 61118), (187, 61127), (189, 61136), (190, 61145), (191, 61151), (213, 61394), (224, 61463), (226, 61475), (235, 61580), (256, 61775), (262, 61808), (269, 61859), (277, 61904), (286, 61970), (293, 62018), (298, 62054), (303, 62099), (304, 62108), (309, 62150), (315, 62195), (316, 62198), (319, 62213),

Gene: Peregrin_100 Start: 61340, Stop: 64219, Start Num: 73
Candidate Starts for Peregrin_100:
(66, 61292), (69, 61322), (71, 61328), (Start: 73 @61340 has 3 MA's), (80, 61418), (83, 61445), (101, 61637), (114, 61859), (115, 61862), (119, 61895), (157, 62183), (162, 62210), (163, 62234), (169, 62282), (174, 62354), (176, 62378), (185, 62540), (190, 62567), (207, 62825), (209, 62849), (212, 62876), (221, 62921), (223, 62948), (231, 62987), (241, 63128), (246, 63173), (252, 63236), (257, 63281), (278, 63416), (284, 63464), (290, 63512), (295, 63548), (297, 63563), (307, 63650), (313, 63710), (317, 63725), (321, 63746), (336, 63941), (337, 63947), (339, 63974), (341, 63995), (343, 64016), (345, 64055), (346, 64064), (351, 64118), (353, 64124), (360, 64196),

Gene: Persimmon_77 Start: 57413, Stop: 60697, Start Num: 10
Candidate Starts for Persimmon_77:
(Start: 10 @57413 has 76 MA's), (14, 57458), (16, 57488), (18, 57506), (Start: 19 @57512 has 1 MA's), (21, 57578), (28, 57791), (29, 57797), (36, 57893), (41, 57971), (51, 58076), (56, 58139), (57, 58145), (61, 58184), (72, 58301), (83, 58400), (93, 58511), (95, 58541), (99, 58580), (116, 58823), (135, 58967), (136, 58982), (147, 59078), (148, 59084), (151, 59108), (162, 59168), (168, 59231), (169, 59240), (174, 59312), (178, 59375), (182, 59447), (185, 59501), (187, 59510), (189, 59519), (190, 59528), (191, 59534), (194, 59615), (201, 59714), (213, 59777), (224, 59846), (226, 59858), (243, 60044), (246, 60062), (256, 60158), (262, 60191), (269, 60242), (276, 60281), (277, 60287), (286, 60353), (289, 60383), (293, 60401), (298, 60437), (303, 60482), (304, 60491), (307, 60512), (309, 60533), (316, 60581), (319, 60596),

Gene: Phredrick_60 Start: 47859, Stop: 51149, Start Num: 10
Candidate Starts for Phredrick_60:
(Start: 10 @47859 has 76 MA's), (13, 47880), (15, 47910), (16, 47931), (Start: 19 @47955 has 1 MA's), (28, 48234), (34, 48294), (40, 48408), (41, 48414), (42, 48426), (51, 48519), (56, 48582), (57, 48588), (61, 48627), (64, 48654), (83, 48843), (85, 48858), (99, 49023), (104, 49071), (130, 49371), (135, 49410), (148, 49527), (153, 49560), (159, 49593), (162, 49611), (165, 49644), (169, 49683), (173, 49749), (174, 49755), (178, 49818), (182, 49890), (185, 49944), (187, 49953), (190, 49971), (191, 49977), (197, 50091), (201, 50157), (205, 50169), (215, 50229), (216, 50232), (228, 50307), (234, 50370), (236, 50412), (249, 50532), (257, 50610), (268, 50679), (269, 50685), (283, 50778), (286, 50796), (288, 50805), (289, 50826), (295, 50856), (299, 50889), (309, 50976), (311, 50988), (313, 51012), (319, 51039),

Gene: PinkiePie_78 Start: 58566, Stop: 61850, Start Num: 10
Candidate Starts for PinkiePie_78:
(Start: 10 @58566 has 76 MA's), (14, 58611), (16, 58641), (18, 58659), (Start: 19 @58665 has 1 MA's), (21, 58731), (28, 58944), (29, 58950), (36, 59046), (41, 59124), (51, 59229), (56, 59292), (57, 59298), (61, 59337), (72, 59454), (83, 59553), (93, 59664), (95, 59694), (99, 59733), (116, 59976), (135, 60120), (136, 60135), (147, 60231), (148, 60237), (151, 60261), (162, 60321), (168, 60384), (169, 60393), (174, 60465), (178, 60528), (182, 60600), (185, 60654), (187, 60663), (189, 60672), (190, 60681), (191, 60687), (194, 60768), (201, 60867), (213, 60930), (224, 60999), (226, 61011), (243, 61197), (246, 61215), (256, 61311), (262, 61344), (269, 61395), (276, 61434), (277, 61440), (286,

61506), (289, 61536), (293, 61554), (298, 61590), (303, 61635), (304, 61644), (307, 61665), (309, 61686), (316, 61734), (319, 61749),

Gene: PumpkinSpice_81 Start: 58443, Stop: 61763, Start Num: 9
Candidate Starts for PumpkinSpice_81:
(Start: 9 @58443 has 36 MA's), (15, 58494), (16, 58515), (Start: 19 @58539 has 1 MA's), (22, 58620), (28, 58818), (41, 58998), (46, 59046), (51, 59103), (55, 59154), (56, 59172), (58, 59181), (61, 59217), (70, 59325), (72, 59334), (93, 59544), (99, 59613), (108, 59778), (116, 59856), (134, 60018), (148, 60141), (151, 60165), (162, 60225), (168, 60288), (169, 60297), (182, 60501), (185, 60555), (187, 60564), (190, 60582), (191, 60588), (202, 60771), (205, 60780), (208, 60804), (213, 60831), (229, 60939), (246, 61128), (254, 61206), (260, 61248), (263, 61266), (269, 61308), (276, 61347), (277, 61353), (281, 61380), (286, 61419), (293, 61467), (294, 61476), (303, 61548), (306, 61569), (308, 61596), (309, 61599), (312, 61614), (316, 61647), (325, 61716),

Gene: PynkPanther_78 Start: 58546, Stop: 61830, Start Num: 10
Candidate Starts for PynkPanther_78:
(Start: 10 @58546 has 76 MA's), (14, 58591), (16, 58621), (18, 58639), (Start: 19 @58645 has 1 MA's), (21, 58711), (28, 58924), (29, 58930), (41, 59104), (51, 59209), (56, 59272), (57, 59278), (61, 59317), (72, 59434), (83, 59533), (93, 59644), (95, 59674), (99, 59713), (116, 59956), (135, 60100), (136, 60115), (147, 60211), (148, 60217), (151, 60241), (162, 60301), (168, 60364), (169, 60373), (174, 60445), (178, 60508), (182, 60580), (185, 60634), (187, 60643), (189, 60652), (190, 60661), (191, 60667), (194, 60748), (201, 60847), (213, 60910), (224, 60979), (226, 60991), (243, 61177), (246, 61195), (256, 61291), (262, 61324), (269, 61375), (276, 61414), (277, 61420), (286, 61486), (289, 61516), (293, 61534), (298, 61570), (303, 61615), (304, 61624), (307, 61645), (309, 61666), (316, 61714), (319, 61729),

Gene: Quaran19_81 Start: 58434, Stop: 61754, Start Num: 9
Candidate Starts for Quaran19_81:
(Start: 9 @58434 has 36 MA's), (15, 58485), (16, 58506), (Start: 19 @58530 has 1 MA's), (22, 58611), (28, 58809), (41, 58989), (46, 59037), (51, 59094), (55, 59145), (56, 59163), (58, 59172), (61, 59208), (70, 59316), (72, 59325), (93, 59535), (99, 59604), (108, 59769), (116, 59847), (134, 60009), (148, 60132), (151, 60156), (162, 60216), (168, 60279), (169, 60288), (182, 60492), (185, 60546), (187, 60555), (190, 60573), (191, 60579), (202, 60762), (205, 60771), (208, 60795), (213, 60822), (229, 60930), (246, 61119), (254, 61197), (260, 61239), (263, 61257), (269, 61299), (276, 61338), (277, 61344), (281, 61371), (286, 61410), (293, 61458), (294, 61467), (303, 61539), (306, 61560), (308, 61587), (309, 61590), (312, 61605), (316, 61638), (325, 61707),

Gene: Rikishi_82 Start: 58349, Stop: 61669, Start Num: 9
Candidate Starts for Rikishi_82:
(Start: 9 @58349 has 36 MA's), (15, 58400), (16, 58421), (Start: 19 @58445 has 1 MA's), (22, 58526), (28, 58724), (41, 58904), (46, 58952), (51, 59009), (55, 59060), (56, 59078), (58, 59087), (61, 59123), (70, 59231), (72, 59240), (93, 59450), (99, 59519), (108, 59684), (116, 59762), (134, 59924), (148, 60047), (151, 60071), (162, 60131), (168, 60194), (169, 60203), (182, 60407), (185, 60461), (187, 60470), (190, 60488), (191, 60494), (202, 60677), (205, 60686), (208, 60710), (213, 60737), (229, 60845), (246, 61034), (254, 61112), (260, 61154), (263, 61172), (269, 61214), (276, 61253), (277, 61259), (281, 61286), (286, 61325), (293, 61373), (294, 61382), (303, 61454), (306, 61475), (308, 61502), (309, 61505), (312, 61520), (316, 61553), (325, 61622),

Gene: Riptide_76 Start: 57198, Stop: 60482, Start Num: 10
Candidate Starts for Riptide_76:
(Start: 10 @57198 has 76 MA's), (14, 57243), (16, 57273), (Start: 19 @57297 has 1 MA's), (28, 57576), (32, 57615), (36, 57678), (41, 57756), (42, 57768), (51, 57861), (56, 57924), (57, 57930), (61, 57969), (72, 58086), (83, 58185), (93, 58296), (99, 58365), (103, 58404), (117, 58617), (135, 58752), (136,

58767), (146, 58857), (147, 58863), (148, 58869), (162, 58953), (168, 59016), (169, 59025), (170, 59052), (174, 59097), (178, 59160), (182, 59232), (185, 59286), (187, 59295), (189, 59304), (190, 59313), (191, 59319), (213, 59562), (224, 59631), (226, 59643), (227, 59646), (269, 60027), (281, 60099), (286, 60138), (293, 60186), (303, 60267), (304, 60276), (309, 60318), (316, 60366), (319, 60381), (323, 60420),

Gene: SaltySpitoon_81 Start: 58443, Stop: 61763, Start Num: 9
Candidate Starts for SaltySpitoon_81:
(Start: 9 @58443 has 36 MA's), (15, 58494), (16, 58515), (Start: 19 @58539 has 1 MA's), (22, 58620), (28, 58818), (41, 58998), (46, 59046), (47, 59049), (51, 59103), (55, 59154), (56, 59172), (58, 59181), (61, 59217), (70, 59325), (72, 59334), (93, 59544), (99, 59613), (108, 59778), (116, 59856), (134, 60018), (148, 60141), (151, 60165), (162, 60225), (168, 60288), (169, 60297), (182, 60501), (185, 60555), (187, 60564), (190, 60582), (191, 60588), (202, 60771), (205, 60780), (208, 60804), (213, 60831), (229, 60939), (246, 61128), (254, 61206), (260, 61248), (263, 61266), (269, 61308), (276, 61347), (277, 61353), (281, 61380), (286, 61419), (293, 61467), (294, 61476), (303, 61548), (306, 61569), (308, 61596), (309, 61599), (312, 61614), (316, 61647), (325, 61716),

Gene: Samisti12_80 Start: 60339, Stop: 63623, Start Num: 10
Candidate Starts for Samisti12_80:
(Start: 10 @60339 has 76 MA's), (14, 60384), (16, 60414), (18, 60432), (Start: 19 @60438 has 1 MA's), (28, 60717), (36, 60819), (41, 60897), (42, 60909), (51, 61002), (56, 61065), (57, 61071), (61, 61110), (72, 61227), (81, 61311), (93, 61437), (95, 61467), (99, 61506), (135, 61893), (146, 61998), (147, 62004), (148, 62010), (152, 62037), (162, 62094), (164, 62124), (169, 62166), (170, 62193), (174, 62238), (178, 62301), (182, 62373), (185, 62427), (187, 62436), (189, 62445), (190, 62454), (191, 62460), (213, 62703), (224, 62772), (226, 62784), (235, 62889), (256, 63084), (262, 63117), (269, 63168), (276, 63207), (277, 63213), (286, 63279), (293, 63327), (298, 63363), (303, 63408), (304, 63417), (309, 63459), (315, 63504), (316, 63507), (319, 63522),

Gene: Scheme_81 Start: 59744, Stop: 63028, Start Num: 10
Candidate Starts for Scheme_81:
(Start: 10 @59744 has 76 MA's), (14, 59789), (16, 59819), (18, 59837), (Start: 19 @59843 has 1 MA's), (28, 60122), (36, 60224), (41, 60302), (51, 60407), (56, 60470), (57, 60476), (61, 60515), (72, 60632), (81, 60716), (93, 60842), (95, 60872), (99, 60911), (135, 61298), (146, 61403), (147, 61409), (148, 61415), (151, 61439), (162, 61499), (164, 61529), (165, 61532), (169, 61571), (170, 61598), (172, 61631), (174, 61643), (178, 61706), (182, 61778), (185, 61832), (187, 61841), (189, 61850), (190, 61859), (191, 61865), (213, 62108), (224, 62177), (226, 62189), (235, 62294), (256, 62489), (262, 62522), (269, 62573), (277, 62618), (286, 62684), (293, 62732), (298, 62768), (303, 62813), (304, 62822), (309, 62864), (315, 62909), (316, 62912), (319, 62927),

Gene: SeresaTree_61 Start: 49159, Stop: 52449, Start Num: 10
Candidate Starts for SeresaTree_61:
(Start: 10 @49159 has 76 MA's), (12, 49174), (13, 49180), (16, 49231), (Start: 19 @49255 has 1 MA's), (28, 49534), (34, 49594), (40, 49708), (41, 49714), (51, 49819), (56, 49882), (57, 49888), (61, 49927), (109, 50506), (130, 50671), (135, 50710), (146, 50815), (147, 50821), (148, 50827), (151, 50851), (159, 50893), (165, 50944), (169, 50983), (174, 51055), (178, 51118), (182, 51190), (185, 51244), (187, 51253), (189, 51262), (190, 51271), (191, 51277), (201, 51457), (205, 51469), (208, 51493), (215, 51529), (216, 51532), (224, 51589), (225, 51595), (228, 51607), (236, 51712), (246, 51805), (257, 51910), (259, 51922), (268, 51979), (269, 51985), (277, 52030), (286, 52096), (288, 52105), (295, 52156), (299, 52189), (309, 52276), (317, 52327), (319, 52339), (328, 52426),

Gene: Sham_57 Start: 49701, Stop: 52991, Start Num: 10
Candidate Starts for Sham_57:

(Start: 10 @49701 has 76 MA's), (12, 49716), (13, 49722), (15, 49752), (16, 49773), (18, 49791), (Start: 19 @49797 has 1 MA's), (27, 50025), (28, 50076), (30, 50106), (34, 50136), (35, 50139), (40, 50250), (41, 50256), (51, 50361), (56, 50424), (57, 50430), (61, 50469), (93, 50796), (95, 50826), (99, 50865), (109, 51048), (130, 51213), (135, 51252), (137, 51270), (147, 51363), (148, 51369), (153, 51402), (159, 51435), (161, 51447), (164, 51483), (165, 51486), (169, 51525), (174, 51597), (178, 51660), (179, 51711), (182, 51732), (185, 51786), (187, 51795), (189, 51804), (190, 51813), (191, 51819), (205, 52011), (215, 52071), (216, 52074), (224, 52131), (225, 52137), (228, 52149), (232, 52185), (236, 52254), (246, 52347), (257, 52452), (268, 52521), (269, 52527), (273, 52539), (286, 52638), (288, 52647), (289, 52668), (295, 52698), (299, 52731), (309, 52818), (310, 52827), (317, 52869), (319, 52881),

Gene: Shuckle_78 Start: 59352, Stop: 62636, Start Num: 10
Candidate Starts for Shuckle_78:
(Start: 10 @59352 has 76 MA's), (14, 59397), (16, 59427), (18, 59445), (Start: 19 @59451 has 1 MA's), (28, 59730), (36, 59832), (41, 59910), (51, 60015), (56, 60078), (57, 60084), (58, 60087), (61, 60123), (72, 60240), (81, 60324), (83, 60339), (93, 60450), (95, 60480), (99, 60519), (135, 60906), (146, 61011), (147, 61017), (148, 61023), (151, 61047), (162, 61107), (164, 61137), (165, 61140), (169, 61179), (170, 61206), (174, 61251), (178, 61314), (182, 61386), (185, 61440), (187, 61449), (189, 61458), (190, 61467), (191, 61473), (213, 61716), (224, 61785), (226, 61797), (230, 61818), (235, 61902), (256, 62097), (262, 62130), (269, 62181), (277, 62226), (286, 62292), (293, 62340), (303, 62421), (309, 62472), (315, 62517), (316, 62520), (319, 62535),

Gene: Sollertia_82 Start: 58392, Stop: 61712, Start Num: 9
Candidate Starts for Sollertia_82:
(Start: 9 @58392 has 36 MA's), (16, 58464), (Start: 19 @58488 has 1 MA's), (22, 58569), (28, 58767), (41, 58947), (46, 58995), (51, 59052), (55, 59103), (56, 59121), (58, 59130), (61, 59166), (72, 59283), (80, 59355), (91, 59478), (93, 59493), (108, 59727), (116, 59805), (134, 59967), (137, 59991), (148, 60090), (162, 60174), (169, 60246), (182, 60450), (185, 60504), (187, 60513), (190, 60531), (191, 60537), (197, 60651), (205, 60729), (208, 60753), (213, 60780), (240, 61035), (242, 61053), (244, 61065), (254, 61155), (263, 61215), (269, 61257), (277, 61302), (281, 61329), (286, 61368), (293, 61416), (294, 61425), (303, 61497), (306, 61518), (308, 61545), (309, 61548), (316, 61596), (324, 61662), (325, 61665),

Gene: SparkleGoddess_61 Start: 49852, Stop: 53142, Start Num: 10
Candidate Starts for SparkleGoddess_61:
(5, 49834), (Start: 10 @49852 has 76 MA's), (12, 49867), (13, 49873), (15, 49903), (16, 49924), (18, 49942), (Start: 19 @49948 has 1 MA's), (24, 50116), (26, 50158), (28, 50227), (34, 50287), (40, 50401), (41, 50407), (51, 50512), (56, 50575), (57, 50581), (61, 50620), (80, 50809), (86, 50866), (89, 50893), (92, 50938), (114, 51244), (119, 51280), (130, 51364), (135, 51403), (146, 51508), (148, 51520), (153, 51553), (158, 51583), (159, 51586), (161, 51598), (162, 51604), (169, 51676), (173, 51742), (174, 51748), (178, 51811), (182, 51883), (185, 51937), (187, 51946), (190, 51964), (191, 51970), (197, 52084), (201, 52150), (205, 52162), (208, 52186), (215, 52222), (216, 52225), (224, 52282), (225, 52288), (228, 52300), (232, 52336), (236, 52405), (257, 52603), (263, 52636), (268, 52672), (269, 52678), (273, 52690), (286, 52789), (288, 52798), (289, 52819), (295, 52849), (301, 52906), (309, 52969), (317, 53020), (319, 53032),

Gene: Spelly_82 Start: 58398, Stop: 61718, Start Num: 9
Candidate Starts for Spelly_82:
(Start: 9 @58398 has 36 MA's), (15, 58449), (16, 58470), (Start: 19 @58494 has 1 MA's), (22, 58575), (28, 58773), (41, 58953), (46, 59001), (51, 59058), (52, 59061), (55, 59109), (56, 59127), (58, 59136), (61, 59172), (70, 59280), (72, 59289), (93, 59499), (99, 59568), (108, 59733), (116, 59811), (134, 59973), (148, 60096), (151, 60120), (162, 60180), (168, 60243), (169, 60252), (182, 60456), (185, 60510), (187, 60519), (190, 60537), (191, 60543), (202, 60726), (205, 60735), (208, 60759), (213,

60786), (229, 60894), (246, 61083), (254, 61161), (260, 61203), (263, 61221), (269, 61263), (276, 61302), (277, 61308), (281, 61335), (286, 61374), (293, 61422), (294, 61431), (303, 61503), (306, 61524), (308, 61551), (309, 61554), (312, 61569), (316, 61602), (325, 61671),

Gene: Spilled_83 Start: 58515, Stop: 61835, Start Num: 9
Candidate Starts for Spilled_83:
(Start: 9 @58515 has 36 MA's), (15, 58566), (16, 58587), (Start: 19 @58611 has 1 MA's), (22, 58692), (28, 58890), (41, 59070), (46, 59118), (47, 59121), (51, 59175), (52, 59178), (55, 59226), (56, 59244), (58, 59253), (61, 59289), (70, 59397), (72, 59406), (93, 59616), (99, 59685), (108, 59850), (116, 59928), (125, 59997), (134, 60090), (148, 60213), (162, 60297), (168, 60360), (169, 60369), (182, 60573), (185, 60627), (187, 60636), (190, 60654), (191, 60660), (205, 60852), (208, 60876), (213, 60903), (229, 61011), (246, 61200), (254, 61278), (260, 61320), (263, 61338), (269, 61380), (276, 61419), (277, 61425), (281, 61452), (286, 61491), (293, 61539), (303, 61620), (306, 61641), (308, 61668), (309, 61671), (312, 61686), (316, 61719), (325, 61788),

Gene: Squillium_79 Start: 58567, Stop: 61851, Start Num: 10
Candidate Starts for Squillium_79:
(Start: 10 @58567 has 76 MA's), (14, 58612), (16, 58642), (18, 58660), (Start: 19 @58666 has 1 MA's), (21, 58732), (28, 58945), (29, 58951), (36, 59047), (41, 59125), (51, 59230), (56, 59293), (57, 59299), (61, 59338), (72, 59455), (83, 59554), (93, 59665), (95, 59695), (99, 59734), (116, 59977), (135, 60121), (136, 60136), (147, 60232), (148, 60238), (151, 60262), (162, 60322), (168, 60385), (169, 60394), (174, 60466), (178, 60529), (182, 60601), (185, 60655), (187, 60664), (189, 60673), (190, 60682), (191, 60688), (194, 60769), (201, 60868), (213, 60931), (224, 61000), (226, 61012), (243, 61198), (246, 61216), (256, 61312), (262, 61345), (269, 61396), (276, 61435), (277, 61441), (286, 61507), (289, 61537), (293, 61555), (298, 61591), (303, 61636), (304, 61645), (307, 61666), (309, 61687), (316, 61735), (319, 61750),

Gene: Stanimal_82 Start: 58281, Stop: 61601, Start Num: 9
Candidate Starts for Stanimal_82:
(Start: 9 @58281 has 36 MA's), (16, 58353), (Start: 19 @58377 has 1 MA's), (22, 58458), (28, 58656), (41, 58836), (46, 58884), (51, 58941), (55, 58992), (56, 59010), (58, 59019), (61, 59055), (70, 59163), (72, 59172), (80, 59244), (93, 59382), (99, 59451), (108, 59616), (116, 59694), (134, 59856), (137, 59880), (148, 59979), (162, 60063), (169, 60135), (182, 60339), (185, 60393), (187, 60402), (190, 60420), (191, 60426), (197, 60540), (205, 60618), (208, 60642), (213, 60669), (239, 60921), (240, 60924), (242, 60942), (244, 60954), (254, 61044), (263, 61104), (269, 61146), (276, 61185), (277, 61191), (281, 61218), (286, 61257), (293, 61305), (294, 61314), (303, 61386), (305, 61398), (306, 61407), (308, 61434), (309, 61437), (312, 61452), (316, 61485), (323, 61539), (325, 61554),

Gene: StarPlatinum_82 Start: 58954, Stop: 62274, Start Num: 9
Candidate Starts for StarPlatinum_82:
(Start: 9 @58954 has 36 MA's), (15, 59005), (16, 59026), (Start: 19 @59050 has 1 MA's), (22, 59131), (28, 59329), (39, 59485), (41, 59509), (46, 59557), (47, 59560), (51, 59614), (55, 59665), (56, 59683), (58, 59692), (61, 59728), (70, 59836), (72, 59845), (80, 59917), (93, 60055), (99, 60124), (108, 60289), (116, 60367), (134, 60529), (148, 60652), (162, 60736), (169, 60808), (182, 61012), (185, 61066), (187, 61075), (190, 61093), (191, 61099), (205, 61291), (208, 61315), (213, 61342), (224, 61423), (229, 61450), (239, 61594), (240, 61597), (242, 61615), (244, 61627), (254, 61717), (263, 61777), (269, 61819), (276, 61858), (277, 61864), (281, 61891), (286, 61930), (293, 61978), (294, 61987), (303, 62059), (305, 62071), (306, 62080), (308, 62107), (309, 62110), (315, 62155), (316, 62158), (323, 62212), (325, 62227),

Gene: Starbow_80 Start: 58419, Stop: 61739, Start Num: 9
Candidate Starts for Starbow_80:

(Start: 9 @58419 has 36 MA's), (15, 58470), (16, 58491), (Start: 19 @58515 has 1 MA's), (22, 58596), (28, 58794), (41, 58974), (46, 59022), (51, 59079), (52, 59082), (55, 59130), (56, 59148), (58, 59157), (61, 59193), (70, 59301), (72, 59310), (93, 59520), (99, 59589), (108, 59754), (116, 59832), (134, 59994), (148, 60117), (162, 60201), (168, 60264), (169, 60273), (182, 60477), (185, 60531), (187, 60540), (190, 60558), (191, 60564), (202, 60747), (205, 60756), (208, 60780), (213, 60807), (229, 60915), (246, 61104), (254, 61182), (260, 61224), (263, 61242), (269, 61284), (276, 61323), (277, 61329), (281, 61356), (286, 61395), (293, 61443), (294, 61452), (303, 61524), (306, 61545), (308, 61572), (309, 61575), (312, 61590), (316, 61623), (325, 61692),

Gene: Stigma_60 Start: 49866, Stop: 53156, Start Num: 10
Candidate Starts for Stigma_60:
(5, 49848), (Start: 10 @49866 has 76 MA's), (13, 49887), (15, 49917), (16, 49938), (18, 49956), (Start: 19 @49962 has 1 MA's), (24, 50130), (26, 50172), (28, 50241), (34, 50301), (40, 50415), (41, 50421), (51, 50526), (56, 50589), (57, 50595), (61, 50634), (80, 50823), (86, 50880), (89, 50907), (92, 50952), (114, 51258), (119, 51294), (130, 51378), (135, 51417), (146, 51522), (148, 51534), (151, 51558), (153, 51567), (158, 51597), (159, 51600), (162, 51618), (169, 51690), (173, 51756), (174, 51762), (178, 51825), (182, 51897), (185, 51951), (187, 51960), (190, 51978), (191, 51984), (197, 52098), (201, 52164), (205, 52176), (215, 52236), (216, 52239), (224, 52296), (225, 52302), (228, 52314), (232, 52350), (236, 52419), (253, 52587), (257, 52617), (263, 52650), (268, 52686), (269, 52692), (273, 52704), (286, 52803), (288, 52812), (289, 52833), (295, 52863), (301, 52920), (309, 52983), (317, 53034), (319, 53046),

Gene: Sushi23_79 Start: 59255, Stop: 62539, Start Num: 10
Candidate Starts for Sushi23_79:
(Start: 10 @59255 has 76 MA's), (14, 59300), (16, 59330), (18, 59348), (Start: 19 @59354 has 1 MA's), (28, 59633), (36, 59735), (41, 59813), (51, 59918), (56, 59981), (57, 59987), (61, 60026), (72, 60143), (81, 60227), (93, 60353), (95, 60383), (99, 60422), (100, 60431), (112, 60629), (135, 60809), (146, 60914), (147, 60920), (148, 60926), (162, 61010), (164, 61040), (169, 61082), (170, 61109), (172, 61142), (174, 61154), (178, 61217), (182, 61289), (185, 61343), (187, 61352), (189, 61361), (190, 61370), (191, 61376), (213, 61619), (224, 61688), (226, 61700), (235, 61805), (256, 62000), (262, 62033), (269, 62084), (277, 62129), (286, 62195), (293, 62243), (298, 62279), (303, 62324), (304, 62333), (309, 62375), (315, 62420), (316, 62423), (319, 62438),

Gene: Targaryen_80 Start: 59965, Stop: 63249, Start Num: 10
Candidate Starts for Targaryen_80:
(Start: 10 @59965 has 76 MA's), (14, 60010), (16, 60040), (18, 60058), (Start: 19 @60064 has 1 MA's), (21, 60130), (28, 60343), (41, 60523), (51, 60628), (56, 60691), (57, 60697), (61, 60736), (68, 60826), (72, 60853), (83, 60952), (93, 61063), (95, 61093), (96, 61096), (99, 61132), (116, 61375), (120, 61405), (135, 61519), (136, 61534), (146, 61624), (147, 61630), (148, 61636), (162, 61720), (168, 61783), (169, 61792), (174, 61864), (178, 61927), (182, 61999), (185, 62053), (187, 62062), (189, 62071), (190, 62080), (191, 62086), (213, 62329), (224, 62398), (235, 62515), (243, 62596), (245, 62605), (250, 62647), (256, 62710), (262, 62743), (269, 62794), (277, 62839), (286, 62905), (293, 62953), (303, 63034), (304, 63043), (309, 63085), (316, 63133), (319, 63148),

Gene: Teutsch_80 Start: 59518, Stop: 62802, Start Num: 10
Candidate Starts for Teutsch_80:
(Start: 10 @59518 has 76 MA's), (14, 59563), (16, 59593), (18, 59611), (Start: 19 @59617 has 1 MA's), (28, 59896), (36, 59998), (41, 60076), (51, 60181), (56, 60244), (57, 60250), (61, 60289), (72, 60406), (81, 60490), (93, 60616), (95, 60646), (99, 60685), (112, 60892), (135, 61072), (146, 61177), (147, 61183), (148, 61189), (151, 61213), (162, 61273), (164, 61303), (165, 61306), (169, 61345), (170, 61372), (174, 61417), (178, 61480), (182, 61552), (185, 61606), (187, 61615), (189, 61624), (190, 61633), (191, 61639), (213, 61882), (224, 61951), (226, 61963), (235, 62068), (256, 62263), (262, 62296), (269, 62347), (277, 62392), (286, 62458), (293, 62506), (303, 62587), (304, 62596), (309,

62638), (315, 62683), (316, 62686), (319, 62701),

Gene: TomSawyer_80 Start: 58037, Stop: 61357, Start Num: 9
Candidate Starts for TomSawyer_80:
(Start: 9 @58037 has 36 MA's), (15, 58088), (16, 58109), (Start: 19 @58133 has 1 MA's), (22, 58214), (28, 58412), (39, 58568), (41, 58592), (46, 58640), (47, 58643), (51, 58697), (55, 58748), (56, 58766), (58, 58775), (61, 58811), (72, 58928), (80, 59000), (93, 59138), (99, 59207), (108, 59372), (116, 59450), (134, 59612), (148, 59735), (162, 59819), (167, 59867), (169, 59891), (182, 60095), (185, 60149), (187, 60158), (190, 60176), (191, 60182), (205, 60374), (208, 60398), (213, 60425), (229, 60533), (246, 60722), (254, 60800), (260, 60842), (263, 60860), (269, 60902), (276, 60941), (277, 60947), (281, 60974), (286, 61013), (293, 61061), (294, 61070), (303, 61142), (306, 61163), (308, 61190), (309, 61193), (312, 61208), (316, 61241), (325, 61310),

Gene: Tomas_84 Start: 60777, Stop: 64097, Start Num: 9
Candidate Starts for Tomas_84:
(Start: 9 @60777 has 36 MA's), (15, 60828), (16, 60849), (Start: 19 @60873 has 1 MA's), (28, 61152), (36, 61254), (39, 61308), (40, 61326), (41, 61332), (46, 61380), (51, 61437), (55, 61488), (56, 61506), (61, 61551), (70, 61659), (72, 61668), (93, 61878), (134, 62352), (148, 62475), (162, 62559), (168, 62622), (169, 62631), (182, 62835), (184, 62871), (185, 62889), (187, 62898), (190, 62916), (191, 62922), (194, 63003), (197, 63036), (205, 63114), (213, 63165), (229, 63273), (239, 63417), (240, 63420), (242, 63438), (244, 63450), (246, 63462), (254, 63540), (259, 63579), (260, 63582), (263, 63600), (269, 63642), (276, 63681), (277, 63687), (286, 63753), (293, 63801), (294, 63810), (303, 63882), (308, 63930), (309, 63933), (314, 63972), (325, 64050),

Gene: Tribute_78 Start: 58724, Stop: 62008, Start Num: 10
Candidate Starts for Tribute_78:
(Start: 10 @58724 has 76 MA's), (14, 58769), (16, 58799), (18, 58817), (Start: 19 @58823 has 1 MA's), (28, 59102), (36, 59204), (41, 59282), (51, 59387), (56, 59450), (57, 59456), (61, 59495), (72, 59612), (81, 59696), (93, 59822), (95, 59852), (99, 59891), (112, 60098), (135, 60278), (146, 60383), (147, 60389), (148, 60395), (162, 60479), (164, 60509), (169, 60551), (170, 60578), (172, 60611), (174, 60623), (178, 60686), (182, 60758), (185, 60812), (187, 60821), (189, 60830), (190, 60839), (191, 60845), (213, 61088), (224, 61157), (226, 61169), (235, 61274), (256, 61469), (262, 61502), (269, 61553), (277, 61598), (286, 61664), (293, 61712), (303, 61793), (304, 61802), (309, 61844), (315, 61889), (316, 61892), (319, 61907),

Gene: Trina_102 Start: 68795, Stop: 71665, Start Num: 74
Candidate Starts for Trina_102:
(Start: 74 @68795 has 1 MA's), (75, 68840), (84, 68930), (90, 69017), (93, 69041), (94, 69044), (100, 69119), (104, 69158), (107, 69254), (135, 69503), (136, 69518), (137, 69521), (149, 69620), (154, 69653), (168, 69761), (169, 69770), (174, 69842), (177, 69869), (183, 69986), (184, 70010), (185, 70028), (186, 70034), (190, 70055), (191, 70061), (192, 70079), (200, 70235), (213, 70301), (214, 70307), (219, 70325), (237, 70508), (247, 70616), (258, 70718), (259, 70727), (263, 70754), (264, 70763), (271, 70805), (275, 70835), (279, 70856), (280, 70865), (285, 70904), (295, 70982), (296, 70994), (297, 70997), (309, 71105), (313, 71144), (317, 71159), (319, 71171), (322, 71210), (332, 71318), (333, 71342), (334, 71363), (340, 71420), (342, 71450), (346, 71501), (348, 71516), (350, 71537), (358, 71612), (360, 71633),

Gene: Tuesday_85 Start: 58581, Stop: 61901, Start Num: 9
Candidate Starts for Tuesday_85:
(Start: 9 @58581 has 36 MA's), (15, 58632), (16, 58653), (Start: 19 @58677 has 1 MA's), (22, 58758), (28, 58956), (41, 59136), (46, 59184), (51, 59241), (55, 59292), (56, 59310), (58, 59319), (61, 59355), (70, 59463), (72, 59472), (93, 59682), (99, 59751), (108, 59916), (116, 59994), (134, 60156), (148, 60279), (151, 60303), (162, 60363), (168, 60426), (169, 60435), (182, 60639), (185, 60693), (187,

60702), (190, 60720), (191, 60726), (202, 60909), (205, 60918), (208, 60942), (213, 60969), (229, 61077), (246, 61266), (254, 61344), (260, 61386), (263, 61404), (269, 61446), (276, 61485), (277, 61491), (281, 61518), (286, 61557), (293, 61605), (294, 61614), (303, 61686), (306, 61707), (308, 61734), (309, 61737), (312, 61752), (316, 61785), (325, 61854),

Gene: TunaTartare_59 Start: 50008, Stop: 53298, Start Num: 10
Candidate Starts for TunaTartare_59:
(Start: 10 @50008 has 76 MA's), (12, 50023), (13, 50029), (15, 50059), (16, 50080), (18, 50098), (Start: 19 @50104 has 1 MA's), (28, 50383), (34, 50443), (41, 50563), (51, 50668), (56, 50731), (57, 50737), (61, 50776), (85, 51007), (104, 51220), (109, 51355), (130, 51520), (135, 51559), (144, 51658), (146, 51664), (147, 51670), (148, 51676), (151, 51700), (153, 51709), (159, 51742), (167, 51808), (168, 51823), (169, 51832), (173, 51898), (174, 51904), (178, 51967), (179, 52018), (182, 52039), (185, 52093), (187, 52102), (190, 52120), (191, 52126), (198, 52252), (205, 52318), (215, 52378), (216, 52381), (224, 52438), (225, 52444), (228, 52456), (229, 52465), (236, 52561), (239, 52609), (243, 52636), (246, 52654), (257, 52759), (268, 52828), (269, 52834), (286, 52945), (288, 52954), (295, 53005), (298, 53029), (309, 53125), (310, 53134), (317, 53176), (319, 53188),

Gene: Wakanda_57 Start: 50039, Stop: 53326, Start Num: 10
Candidate Starts for Wakanda_57:
(Start: 10 @50039 has 76 MA's), (16, 50111), (Start: 19 @50135 has 1 MA's), (23, 50231), (28, 50414), (34, 50474), (38, 50564), (41, 50594), (43, 50609), (45, 50636), (46, 50642), (51, 50699), (56, 50762), (61, 50807), (65, 50855), (87, 51059), (92, 51125), (93, 51134), (98, 51200), (106, 51335), (108, 51368), (116, 51446), (130, 51551), (135, 51590), (136, 51605), (147, 51701), (148, 51707), (153, 51740), (161, 51785), (162, 51791), (167, 51839), (169, 51863), (170, 51890), (171, 51908), (174, 51935), (178, 51998), (182, 52070), (185, 52124), (187, 52133), (190, 52151), (191, 52157), (198, 52283), (201, 52337), (205, 52349), (213, 52400), (215, 52409), (224, 52469), (240, 52643), (247, 52694), (259, 52802), (268, 52859), (269, 52865), (278, 52913), (286, 52976), (288, 52985), (304, 53114), (309, 53156), (312, 53171), (319, 53219),

Gene: Warpy_83 Start: 59428, Stop: 62712, Start Num: 10
Candidate Starts for Warpy_83:
(Start: 10 @59428 has 76 MA's), (14, 59473), (16, 59503), (18, 59521), (Start: 19 @59527 has 1 MA's), (21, 59593), (28, 59806), (41, 59986), (51, 60091), (56, 60154), (57, 60160), (61, 60199), (68, 60289), (72, 60316), (83, 60415), (93, 60526), (95, 60556), (96, 60559), (99, 60595), (116, 60838), (120, 60868), (135, 60982), (136, 60997), (147, 61093), (148, 61099), (162, 61183), (168, 61246), (169, 61255), (170, 61282), (174, 61327), (178, 61390), (182, 61462), (185, 61516), (187, 61525), (189, 61534), (190, 61543), (191, 61549), (201, 61729), (213, 61792), (224, 61861), (235, 61978), (245, 62068), (250, 62110), (256, 62173), (262, 62206), (269, 62257), (276, 62296), (277, 62302), (286, 62368), (293, 62416), (298, 62452), (303, 62497), (304, 62506), (309, 62548), (316, 62596), (319, 62611),

Gene: WashU_80 Start: 59033, Stop: 62317, Start Num: 10
Candidate Starts for WashU_80:
(Start: 10 @59033 has 76 MA's), (14, 59078), (16, 59108), (18, 59126), (Start: 19 @59132 has 1 MA's), (28, 59411), (36, 59513), (41, 59591), (51, 59696), (56, 59759), (57, 59765), (61, 59804), (72, 59921), (81, 60005), (93, 60131), (95, 60161), (99, 60200), (100, 60209), (112, 60407), (135, 60587), (146, 60692), (147, 60698), (148, 60704), (162, 60788), (164, 60818), (169, 60860), (170, 60887), (172, 60920), (174, 60932), (178, 60995), (182, 61067), (185, 61121), (187, 61130), (189, 61139), (190, 61148), (191, 61154), (213, 61397), (224, 61466), (226, 61478), (235, 61583), (256, 61778), (262, 61811), (269, 61862), (277, 61907), (286, 61973), (293, 62021), (298, 62057), (303, 62102), (304, 62111), (309, 62153), (315, 62198), (316, 62201), (319, 62216),

Gene: Watermoore_80 Start: 59734, Stop: 63018, Start Num: 10

Candidate Starts for Watermoore_80:
(Start: 10 @59734 has 76 MA's), (14, 59779), (16, 59809), (18, 59827), (Start: 19 @59833 has 1 MA's), (28, 60112), (36, 60214), (41, 60292), (51, 60397), (56, 60460), (57, 60466), (61, 60505), (72, 60622), (81, 60706), (93, 60832), (95, 60862), (99, 60901), (100, 60910), (112, 61108), (135, 61288), (146, 61393), (147, 61399), (148, 61405), (162, 61489), (164, 61519), (169, 61561), (170, 61588), (172, 61621), (174, 61633), (178, 61696), (182, 61768), (185, 61822), (187, 61831), (189, 61840), (190, 61849), (191, 61855), (213, 62098), (224, 62167), (226, 62179), (235, 62284), (256, 62479), (262, 62512), (269, 62563), (276, 62602), (277, 62608), (286, 62674), (293, 62722), (298, 62758), (303, 62803), (304, 62812), (309, 62854), (315, 62899), (316, 62902), (319, 62917),

Gene: Weasels2_102 Start: 62486, Stop: 65329, Start Num: 73
Candidate Starts for Weasels2_102:
(66, 62438), (71, 62474), (Start: 73 @62486 has 3 MA's), (83, 62594), (101, 62786), (115, 63011), (118, 63041), (119, 63044), (121, 63062), (132, 63146), (158, 63338), (162, 63359), (168, 63422), (169, 63431), (174, 63503), (177, 63530), (184, 63671), (185, 63689), (206, 63923), (246, 64277), (255, 64361), (263, 64424), (264, 64433), (265, 64436), (278, 64520), (291, 64625), (295, 64652), (296, 64664), (297, 64667), (300, 64697), (317, 64829), (323, 64883), (334, 65030), (341, 65096), (345, 65156), (346, 65165), (351, 65219), (352, 65222), (353, 65225), (354, 65228), (357, 65270),

Gene: Westy_61 Start: 49852, Stop: 53142, Start Num: 10
Candidate Starts for Westy_61:
(5, 49834), (Start: 10 @49852 has 76 MA's), (12, 49867), (13, 49873), (15, 49903), (16, 49924), (18, 49942), (Start: 19 @49948 has 1 MA's), (24, 50116), (26, 50158), (28, 50227), (34, 50287), (40, 50401), (41, 50407), (51, 50512), (56, 50575), (57, 50581), (61, 50620), (80, 50809), (86, 50866), (89, 50893), (92, 50938), (114, 51244), (119, 51280), (127, 51355), (130, 51364), (135, 51403), (146, 51508), (148, 51520), (153, 51553), (158, 51583), (159, 51586), (161, 51598), (162, 51604), (169, 51676), (173, 51742), (174, 51748), (178, 51811), (182, 51883), (185, 51937), (187, 51946), (190, 51964), (191, 51970), (197, 52084), (201, 52150), (205, 52162), (208, 52186), (215, 52222), (216, 52225), (224, 52282), (225, 52288), (228, 52300), (232, 52336), (236, 52405), (257, 52603), (263, 52636), (268, 52672), (269, 52678), (273, 52690), (286, 52789), (288, 52798), (289, 52819), (295, 52849), (301, 52906), (309, 52969), (317, 53020), (319, 53032),

Gene: WhereRU_77 Start: 58001, Stop: 61285, Start Num: 10
Candidate Starts for WhereRU_77:
(Start: 10 @58001 has 76 MA's), (14, 58046), (16, 58076), (18, 58094), (Start: 19 @58100 has 1 MA's), (21, 58166), (28, 58379), (29, 58385), (36, 58481), (41, 58559), (51, 58664), (56, 58727), (57, 58733), (61, 58772), (72, 58889), (83, 58988), (93, 59099), (95, 59129), (99, 59168), (116, 59411), (135, 59555), (136, 59570), (146, 59660), (147, 59666), (148, 59672), (151, 59696), (162, 59756), (167, 59804), (168, 59819), (169, 59828), (174, 59900), (178, 59963), (182, 60035), (185, 60089), (187, 60098), (189, 60107), (190, 60116), (191, 60122), (194, 60203), (201, 60302), (213, 60365), (224, 60434), (226, 60446), (243, 60632), (246, 60650), (256, 60746), (262, 60779), (269, 60830), (277, 60875), (286, 60941), (289, 60971), (293, 60989), (298, 61025), (303, 61070), (304, 61079), (307, 61100), (309, 61121), (316, 61169), (319, 61184),

Gene: Wipeout_79 Start: 58788, Stop: 62108, Start Num: 9
Candidate Starts for Wipeout_79:
(Start: 9 @58788 has 36 MA's), (15, 58839), (16, 58860), (Start: 19 @58884 has 1 MA's), (22, 58965), (28, 59163), (41, 59343), (46, 59391), (51, 59448), (55, 59499), (56, 59517), (58, 59526), (61, 59562), (70, 59670), (72, 59679), (93, 59889), (99, 59958), (108, 60123), (116, 60201), (134, 60363), (148, 60486), (151, 60510), (162, 60570), (168, 60633), (169, 60642), (182, 60846), (185, 60900), (187, 60909), (190, 60927), (191, 60933), (205, 61125), (208, 61149), (213, 61176), (229, 61284), (246, 61473), (254, 61551), (260, 61593), (263, 61611), (269, 61653), (276, 61692), (277, 61698), (281, 61725), (286, 61764), (293, 61812), (294, 61821), (303, 61893), (306, 61914), (308, 61941), (309,

61944), (312, 61959), (316, 61992), (325, 62061),

Gene: Wofford_81 Start: 59478, Stop: 62798, Start Num: 9
Candidate Starts for Wofford_81:
(4, 59448), (Start: 9 @59478 has 36 MA's), (15, 59529), (16, 59550), (Start: 19 @59574 has 1 MA's), (22, 59655), (28, 59853), (41, 60033), (46, 60081), (51, 60138), (55, 60189), (56, 60207), (58, 60216), (61, 60252), (72, 60369), (80, 60441), (93, 60579), (99, 60648), (108, 60813), (116, 60891), (134, 61053), (138, 61080), (148, 61176), (151, 61200), (162, 61260), (169, 61332), (182, 61536), (185, 61590), (187, 61599), (190, 61617), (191, 61623), (202, 61806), (205, 61815), (208, 61839), (213, 61866), (246, 62163), (253, 62238), (254, 62241), (260, 62283), (269, 62343), (276, 62382), (277, 62388), (281, 62415), (286, 62454), (293, 62502), (294, 62511), (303, 62583), (308, 62631), (309, 62634), (315, 62679), (316, 62682), (323, 62736), (325, 62751),

Gene: Yaboi_82 Start: 58369, Stop: 61689, Start Num: 9
Candidate Starts for Yaboi_82:
(Start: 9 @58369 has 36 MA's), (16, 58441), (Start: 19 @58465 has 1 MA's), (22, 58546), (28, 58744), (41, 58924), (46, 58972), (51, 59029), (55, 59080), (56, 59098), (58, 59107), (61, 59143), (72, 59260), (80, 59332), (91, 59455), (93, 59470), (99, 59539), (108, 59704), (116, 59782), (134, 59944), (137, 59968), (148, 60067), (162, 60151), (169, 60223), (182, 60427), (185, 60481), (187, 60490), (190, 60508), (191, 60514), (197, 60628), (205, 60706), (208, 60730), (213, 60757), (240, 61012), (242, 61030), (244, 61042), (254, 61132), (263, 61192), (269, 61234), (277, 61279), (281, 61306), (286, 61345), (293, 61393), (294, 61402), (303, 61474), (305, 61486), (306, 61495), (308, 61522), (309, 61525), (312, 61540), (316, 61573), (323, 61627), (325, 61642),