**Retrieved RNA Sequence:**

EPI\_ISL\_425440 United Kingdom 2020.4.14

EPI\_ISL\_727950 United Kingdom 2020.12.17

**Mutation Spots:**

No. 1

Location: 150

Mutation: GCTTACGGTTTCGTCCGTGTTGCAG to GCTTACGGTTTCTTCCGTGTTGCAG

Mutation Spot: G to T

Prediction: Yes, G to A

No. 2

Location: 391

Mutation: TGAAAAAGGCGTTTTGCCTCAACTT to TGAAAAAGGCGTCTTGCCTCAACTT

Mutation Spot: T to C

Prediction: Yes, T to C

No. 3

Location: 6232

Mutation: TAAACCAAATACCTGGTGTATACGT to TAAACCAAATACTTGGTGTATACGT

Mutation Spot: C to T

Prediction: No

No. 4

Location: 12336

Mutation: GAAAGTTGGATAGTGATGCACTCAA to GAAAGTTGGATAATGATGCACTCAA

Mutation Spot: G to A

Prediction: No

No. 5

Location: 17625

Mutation: GGGTGTTATCACGCATGATGTTTCA to GGGTGTTATCACTCATGATGTTTCA

Mutation Spot: G to T

Prediction: Yes, G to A

No. 6

Location: 21201

Mutation: TAATGTGAATGCGTCATCATCTGAA to TAATGTGAATGCCTCATCATCTGAA

Mutation Spot: G to C

Prediction: Yes, G to C

No. 7

Location: 21560

Mutation: CAGTGTGTTAATCTTACAACCAGAA to CAGTGTGTTAATTTTACAACCAGAA

Mutation Spot: C to T

Prediction: Yes, C to T

No. 8

Location: 22173

Mutation: AGGGTTTTTCGGCTTTAGAACCATT to AGGGTTTTTCGGTTTTAGAACCATT

Mutation Spot: C to T

Prediction: Yes, C to G

No. 9

Location: 26747

Mutation: CTTGATGTGGCTCAGCTACTTCATT to CTTGATGTGGCTGAGCTACTTCATT

Mutation Spot: C to G

Prediction: Yes, C to G

No. 10

Location: 27890

Mutation: AGCTGCATTTCACCAAGAATGTAGT to AGCTGCATTTCATCAAGAATGTAGT

Mutation Spot: C to T

Prediction: Yes, C to T

No. 11

Location: 28741

Mutation: CTTCTACGCAGAAGGGAGCAGAGGC to CTTCTACGCAGAGGGGAGCAGAGGC

Mutation Spot: A to G

Prediction: Yes, A to G

No. 12

Location: 28827

Mutation: CAGGCAGCAGTAAACGAACTTCTCC to CAGGCAGCAGTAGGGGAACTTCTCC

Mutation Spot: A to G

Prediction: No

No. 13

Location: 28828

Mutation: AGGCAGCAGTAAACGAACTTCTCCT to AGGCAGCAGTAGGGGAACTTCTCCT

Mutation Spot: A to G

Prediction: No

No. 14

Location: 28829

Mutation: GGCAGCAGTAAACGAACTTCTCCTG to GGCAGCAGTAGGGGAACTTCTCCTG

Mutation Spot: C to G

Prediction: Yes, C to G

No. 15

Location: 28878

Mutation: ATGCTGCTCTTGCTTTGCTGCTGCT to ATGCTGCTCTTGTTTTGCTGCTGCT

Mutation Spot: C to T

Prediction: No

No. 16

Location: 29591

Mutation: TACATAGCACAAGTAGATGTAGTTA to TACATAGCACAATTAGATGTAGTTA

Mutation Spot: G to T

Prediction: No

**Future Mutation Spots:**

No. 1

Mutation Spots Location: 22

Mutation Sequence: CTCTAAACGAACTTTAAAATCTGTG

Mutation Spots: T to C

No. 2

Mutation Spots Location: 37

Mutation Sequence: AAAATCTGTGTGGCTGTCACTCGGC

Mutation Spots: G to A

No. 3

Mutation Spots Location: 52

Mutation Sequence: GTCACTCGGCTGCATGCTTAGTGCA

Mutation Spots: C to T

No. 4

Mutation Spots Location: 63

Mutation Sequence: GCATGCTTAGTGCACTCACGCAGTA

Mutation Spots: C to T

No. 5

Mutation Spots Location: 124

Mutation Sequence: AGTAACTCGTCTATCTTCTGCAGGC

Mutation Spots: A to T

No. 6

Mutation Spots Location: 139

Mutation Sequence: TTCTGCAGGCTGCTTACGGTTTCTT

Mutation Spots: C to T

No. 7

Mutation Spots Location: 186

Mutation Sequence: CACATCTAGGTTTTGTCCGGGTGTG

Mutation Spots: T to C

No. 8

Mutation Spots Location: 195

Mutation Sequence: GTTTTGTCCGGGTGTGACCGAAAGG

Mutation Spots: T to C

No. 9

Mutation Spots Location: 204

Mutation Sequence: GGGTGTGACCGAAAGGTAAGATGGA

Mutation Spots: A to G

No. 10

Mutation Spots Location: 236

Mutation Sequence: GTCCCTGGTTTCAACGAGAAAACAC

Mutation Spots: A to G

No. 11

Mutation Spots Location: 259

Mutation Sequence: ACACGTCCAACTCAGTTTGCCTGTT

Mutation Spots: C to A

No. 12

Mutation Spots Location: 261

Mutation Sequence: ACGTCCAACTCAGTTTGCCTGTTTT

Mutation Spots: G to A

No. 13

Mutation Spots Location: 272

Mutation Sequence: AGTTTGCCTGTTTTACAGGTTCGCG

Mutation Spots: T to C

No. 14

Mutation Spots Location: 287

Mutation Sequence: CAGGTTCGCGACGTGCTCGTACGTG

Mutation Spots: G to T

No. 15

Mutation Spots Location: 302

Mutation Sequence: CTCGTACGTGGCTTTGGAGACTCCG

Mutation Spots: T to C

No. 16

Mutation Spots Location: 306

Mutation Sequence: TACGTGGCTTTGGAGACTCCGTGGA

Mutation Spots: G to A

No. 17

Mutation Spots Location: 307

Mutation Sequence: ACGTGGCTTTGGAGACTCCGTGGAG

Mutation Spots: A to G

No. 18

Mutation Spots Location: 361

Mutation Sequence: TAAAGATGGCACTTGTGGCTTAGTA

Mutation Spots: T to C

No. 19

Mutation Spots Location: 408

Mutation Sequence: CTCAACTTGAACAGCCCTATGTGTT

Mutation Spots: A to T

No. 20

Mutation Spots Location: 437

Mutation Sequence: AAACGTTCGGATGCTCGAACTGCAC

Mutation Spots: G to A

No. 21

Mutation Spots Location: 459

Mutation Sequence: CACCTCATGGTCATGTTATGGTTGA

Mutation Spots: A to G

No. 22

Mutation Spots Location: 465

Mutation Sequence: ATGGTCATGTTATGGTTGAGCTGGT

Mutation Spots: T to G

No. 23

Mutation Spots Location: 469

Mutation Sequence: TCATGTTATGGTTGAGCTGGTAGCA

Mutation Spots: T to C

No. 24

Mutation Spots Location: 480

Mutation Sequence: TTGAGCTGGTAGCAGAACTCGAAGG

Mutation Spots: C to G

No. 25

Mutation Spots Location: 596

Mutation Sequence: AAGAACGGTAATAAAGGAGCTGGTG

Mutation Spots: A to C

No. 26

Mutation Spots Location: 612

Mutation Sequence: GAGCTGGTGGCCATAGTTACGGCGC

Mutation Spots: A to G

No. 27

Mutation Spots Location: 618

Mutation Sequence: GTGGCCATAGTTACGGCGCCGATCT

Mutation Spots: A to G

No. 28

Mutation Spots Location: 627

Mutation Sequence: GTTACGGCGCCGATCTAAAGTCATT

Mutation Spots: A to G

No. 29

Mutation Spots Location: 632

Mutation Sequence: GGCGCCGATCTAAAGTCATTTGACT

Mutation Spots: A to G

No. 30

Mutation Spots Location: 646

Mutation Sequence: GTCATTTGACTTAGGCGACGAGCTT

Mutation Spots: A to C

No. 31

Mutation Spots Location: 694

Mutation Sequence: TCAAGAAAACTGGAACACTAAACAT

Mutation Spots: G to A

No. 32

Mutation Spots Location: 701

Mutation Sequence: AACTGGAACACTAAACATAGCAGTG

Mutation Spots: A to G

No. 33

Mutation Spots Location: 703

Mutation Sequence: CTGGAACACTAAACATAGCAGTGGT

Mutation Spots: A to G

No. 34

Mutation Spots Location: 736

Mutation Sequence: TGAACTCATGCGTGAGCTTAACGGA

Mutation Spots: T to G

No. 35

Mutation Spots Location: 740

Mutation Sequence: CTCATGCGTGAGCTTAACGGAGGGG

Mutation Spots: C to T

No. 36

Mutation Spots Location: 750

Mutation Sequence: AGCTTAACGGAGGGGCATACACTCG

Mutation Spots: G to A

No. 37

Mutation Spots Location: 803

Mutation Sequence: GATGGCTACCCTCTTGAGTGCATTA

Mutation Spots: C to T

No. 38

Mutation Spots Location: 847

Mutation Sequence: TGGTAAAGCTTCATGCACTTTGTCC

Mutation Spots: A to C

No. 39

Mutation Spots Location: 861

Mutation Sequence: GCACTTTGTCCGAACAACTGGACTT

Mutation Spots: A to G

No. 40

Mutation Spots Location: 883

Mutation Sequence: CTTTATTGACACTAAGAGGGGTGTA

Mutation Spots: T to C

No. 41

Mutation Spots Location: 889

Mutation Sequence: TGACACTAAGAGGGGTGTATACTGC

Mutation Spots: G to A

No. 42

Mutation Spots Location: 897

Mutation Sequence: AGAGGGGTGTATACTGCTGCCGTGA

Mutation Spots: A to G

No. 43

Mutation Spots Location: 926

Mutation Sequence: GAGCATGAAATTGCTTGGTACACGG

Mutation Spots: G to A

No. 44

Mutation Spots Location: 928

Mutation Sequence: GCATGAAATTGCTTGGTACACGGAA

Mutation Spots: T to C

No. 45

Mutation Spots Location: 968

Mutation Sequence: TATGAATTGCAGACACCTTTTGAAA

Mutation Spots: A to G

No. 46

Mutation Spots Location: 1006

Mutation Sequence: GAAATTTGACACCTTCAATGGGGAA

Mutation Spots: C to T

No. 47

Mutation Spots Location: 1074

Mutation Sequence: TTCAACCAAGGGTTGAAAAGAAAAA

Mutation Spots: T to C

No. 48

Mutation Spots Location: 1092

Mutation Sequence: AGAAAAAGCTTGATGGCTTTATGGG

Mutation Spots: A to G

No. 49

Mutation Spots Location: 1165

Mutation Sequence: AATGTGCCTTTCAACTCTCATGAAG

Mutation Spots: A to G

No. 50

Mutation Spots Location: 1170

Mutation Sequence: GCCTTTCAACTCTCATGAAGTGTGA

Mutation Spots: T to A

No. 51

Mutation Spots Location: 1201

Mutation Sequence: TGGTGAAACTTCATGGCAGACGGGC

Mutation Spots: A to G

No. 52

Mutation Spots Location: 1257

Mutation Sequence: GCACTGAGAATTTGACTAAAGAAGG

Mutation Spots: T to G

No. 53

Mutation Spots Location: 1266

Mutation Sequence: ATTTGACTAAAGAAGGTGCCACTAC

Mutation Spots: A to G

No. 54

Mutation Spots Location: 1273

Mutation Sequence: TAAAGAAGGTGCCACTACTTGTGGT

Mutation Spots: C to T

No. 55

Mutation Spots Location: 1282

Mutation Sequence: TGCCACTACTTGTGGTTACTTACCC

Mutation Spots: T to C

No. 56

Mutation Spots Location: 1290

Mutation Sequence: CTTGTGGTTACTTACCCCAAAATGC

Mutation Spots: T to C

No. 57

Mutation Spots Location: 1292

Mutation Sequence: TGTGGTTACTTACCCCAAAATGCTG

Mutation Spots: C to T

No. 58

Mutation Spots Location: 1345

Mutation Sequence: CAATTCAGAAGTAGGACCTGAGCAT

Mutation Spots: A to G

No. 59

Mutation Spots Location: 1357

Mutation Sequence: AGGACCTGAGCATAGTCTTGCCGAA

Mutation Spots: T to C

No. 60

Mutation Spots Location: 1372

Mutation Sequence: TCTTGCCGAATACCATAATGAATCT

Mutation Spots: C to T

No. 61

Mutation Spots Location: 1385

Mutation Sequence: CATAATGAATCTGGCTTGAAAACCA

Mutation Spots: G to A

No. 62

Mutation Spots Location: 1459

Mutation Sequence: TTATGTTGGTTGCCATAACAAGTGT

Mutation Spots: C to T

No. 63

Mutation Spots Location: 1460

Mutation Sequence: TATGTTGGTTGCCATAACAAGTGTG

Mutation Spots: C to A

No. 64

Mutation Spots Location: 1557

Mutation Sequence: GTCTTAATGACAACCTTCTTGAAAT

Mutation Spots: A to G

No. 65

Mutation Spots Location: 1596

Mutation Sequence: AAGTCAACATCAATATTGTTGGTGA

Mutation Spots: A to G

No. 66

Mutation Spots Location: 1640

Mutation Sequence: ATCGCCATTATTTTGGCATCTTTTT

Mutation Spots: T to C

No. 67

Mutation Spots Location: 1645

Mutation Sequence: CATTATTTTGGCATCTTTTTCTGCT

Mutation Spots: A to C

No. 68

Mutation Spots Location: 1647

Mutation Sequence: TTATTTTGGCATCTTTTTCTGCTTC

Mutation Spots: C to T

No. 69

Mutation Spots Location: 1665

Mutation Sequence: CTGCTTCCACAAGTGCTTTTGTGGA

Mutation Spots: G to A

No. 70

Mutation Spots Location: 1669

Mutation Sequence: TTCCACAAGTGCTTTTGTGGAAACT

Mutation Spots: T to C

No. 71

Mutation Spots Location: 1685

Mutation Sequence: GTGGAAACTGTGAAAGGTTTGGATT

Mutation Spots: A to G

No. 72

Mutation Spots Location: 1711

Mutation Sequence: TAAAGCATTCAAACAAATTGTTGAA

Mutation Spots: A to G

No. 73

Mutation Spots Location: 1726

Mutation Sequence: AATTGTTGAATCCTGTGGTAATTTT

Mutation Spots: C to T

No. 74

Mutation Spots Location: 1751

Mutation Sequence: AAAGTTACAAAAGGAAAAGCTAAAA

Mutation Spots: G to A

No. 75

Mutation Spots Location: 1786

Mutation Sequence: GAATATTGGTGAACAGAAATCAATA

Mutation Spots: A to G

No. 76

Mutation Spots Location: 1787

Mutation Sequence: AATATTGGTGAACAGAAATCAATAC

Mutation Spots: C to T

No. 77

Mutation Spots Location: 1819

Mutation Sequence: TCTTTATGCATTTGCATCAGAGGCT

Mutation Spots: T to C

No. 78

Mutation Spots Location: 1835

Mutation Sequence: TCAGAGGCTGCTCGTGTTGTACGAT

Mutation Spots: C to T

No. 79

Mutation Spots Location: 1861

Mutation Sequence: AATTTTCTCCCGCACTCTTGAAACT

Mutation Spots: C to A

No. 80

Mutation Spots Location: 1912

Mutation Sequence: GAAGGCCGCTATAACAATACTAGAT

Mutation Spots: A to G

No. 81

Mutation Spots Location: 1937

Mutation Sequence: GGAATTTCACAGTATTCACTGAGAC

Mutation Spots: T to C

No. 82

Mutation Spots Location: 1948

Mutation Sequence: GTATTCACTGAGACTCATTGATGCT

Mutation Spots: A to G

No. 83

Mutation Spots Location: 1960

Mutation Sequence: ACTCATTGATGCTATGATGTTCACA

Mutation Spots: T to A

No. 84

Mutation Spots Location: 1998

Mutation Sequence: CTAACAATCTAGTTGTAATGGCCTA

Mutation Spots: T to C

No. 85

Mutation Spots Location: 2047

Mutation Sequence: GACTTCGCAGTGGCTAACTAACATC

Mutation Spots: G to A

No. 86

Mutation Spots Location: 2048

Mutation Sequence: ACTTCGCAGTGGCTAACTAACATCT

Mutation Spots: C to T

No. 87

Mutation Spots Location: 2054

Mutation Sequence: CAGTGGCTAACTAACATCTTTGGCA

Mutation Spots: A to G

No. 88

Mutation Spots Location: 2060

Mutation Sequence: CTAACTAACATCTTTGGCACTGTTT

Mutation Spots: T to A

No. 89

Mutation Spots Location: 2093

Mutation Sequence: CTCAAACCCGTCCTTGATTGGCTTG

Mutation Spots: C to T

No. 90

Mutation Spots Location: 2111

Mutation Sequence: TGGCTTGAAGAGAAGTTTAAGGAAG

Mutation Spots: A to G

No. 91

Mutation Spots Location: 2116

Mutation Sequence: TGAAGAGAAGTTTAAGGAAGGTGTA

Mutation Spots: T to C

No. 92

Mutation Spots Location: 2143

Mutation Sequence: GTTTCTTAGAGACGGTTGGGAAATT

Mutation Spots: C to T

No. 93

Mutation Spots Location: 2146

Mutation Sequence: TCTTAGAGACGGTTGGGAAATTGTT

Mutation Spots: T to G

No. 94

Mutation Spots Location: 2164

Mutation Sequence: AATTGTTAAATTTATCTCAACCTGT

Mutation Spots: T to C

No. 95

Mutation Spots Location: 2188

Mutation Sequence: TGCTTGTGAAATTGTCGGTGGACAA

Mutation Spots: T to C

No. 96

Mutation Spots Location: 2221

Mutation Sequence: CTGTGCAAAGGAAATTAAGGAGAGT

Mutation Spots: A to G

No. 97

Mutation Spots Location: 2231

Mutation Sequence: GAAATTAAGGAGAGTGTTCAGACAT

Mutation Spots: A to G

No. 98

Mutation Spots Location: 2302

Mutation Sequence: CATTATTGGTGGAGCTAAACTTAAA

Mutation Spots: A to G

No. 99

Mutation Spots Location: 2306

Mutation Sequence: ATTGGTGGAGCTAAACTTAAAGCCT

Mutation Spots: A to G

No. 100

Mutation Spots Location: 2342

Mutation Sequence: GAAACATTTGTCACGCACTCAAAGG

Mutation Spots: A to C

No. 101

Mutation Spots Location: 2354

Mutation Sequence: ACGCACTCAAAGGGATTGTACAGAA

Mutation Spots: G to A

No. 102

Mutation Spots Location: 2392

Mutation Sequence: CAGAGAAGAAACTGGCCTACTCATG

Mutation Spots: T to A

No. 103

Mutation Spots Location: 2442

Mutation Sequence: TCTTCTTAGAGGGAGAAACACTTCC

Mutation Spots: G to A

No. 104

Mutation Spots Location: 2454

Mutation Sequence: GAGAAACACTTCCCACAGAAGTGTT

Mutation Spots: C to A

No. 105

Mutation Spots Location: 2469

Mutation Sequence: CAGAAGTGTTAACAGAGGAAGTTGT

Mutation Spots: C to T

No. 106

Mutation Spots Location: 2542

Mutation Sequence: TGTTGAAGCTCCATTGGTTGGTACA

Mutation Spots: A to G

No. 107

Mutation Spots Location: 2583

Mutation Sequence: GGCTTATGTTGCTCGAAATCAAAGA

Mutation Spots: T to C

No. 108

Mutation Spots Location: 2603

Mutation Sequence: AAAGACACAGAAAAGTACTGTGCCC

Mutation Spots: A to G

No. 109

Mutation Spots Location: 2697

Mutation Sequence: TTGGTGATGACACTGTGATAGAAGT

Mutation Spots: C to T

No. 110

Mutation Spots Location: 2698

Mutation Sequence: TGGTGATGACACTGTGATAGAAGTG

Mutation Spots: T to C

No. 111

Mutation Spots Location: 2709

Mutation Sequence: CTGTGATAGAAGTGCAAGGTTACAA

Mutation Spots: T to A

No. 112

Mutation Spots Location: 2752

Mutation Sequence: TGAACTTGATGAAAGGATTGATAAA

Mutation Spots: A to G

No. 113

Mutation Spots Location: 2786

Mutation Sequence: GAGAAGTGCTCTGCCTATACAGTTG

Mutation Spots: G to A

No. 114

Mutation Spots Location: 2800

Mutation Sequence: CTATACAGTTGAACTCGGTACAGAA

Mutation Spots: A to G

No. 115

Mutation Spots Location: 2803

Mutation Sequence: TACAGTTGAACTCGGTACAGAAGTA

Mutation Spots: C to A

No. 116

Mutation Spots Location: 2817

Mutation Sequence: GTACAGAAGTAAATGAGTTCGCCTG

Mutation Spots: A to G

No. 117

Mutation Spots Location: 2845

Mutation Sequence: TGTGGCAGATGCTGTCATAAAAACT

Mutation Spots: T to G

No. 118

Mutation Spots Location: 2850

Mutation Sequence: CAGATGCTGTCATAAAAACTTTGCA

Mutation Spots: T to C

No. 119

Mutation Spots Location: 2866

Mutation Sequence: AACTTTGCAACCAGTATCTGAATTA

Mutation Spots: A to G

No. 120

Mutation Spots Location: 2897

Mutation Sequence: CCACTGGGCATTGATTTAGATGAGT

Mutation Spots: G to A

No. 121

Mutation Spots Location: 2910

Mutation Sequence: ATTTAGATGAGTGGAGTATGGCTAC

Mutation Spots: G to A

No. 122

Mutation Spots Location: 2912

Mutation Sequence: TTAGATGAGTGGAGTATGGCTACAT

Mutation Spots: A to C

No. 123

Mutation Spots Location: 2924

Mutation Sequence: AGTATGGCTACATACTACTTATTTG

Mutation Spots: T to C

No. 124

Mutation Spots Location: 2932

Mutation Sequence: TACATACTACTTATTTGATGAGTCT

Mutation Spots: A to C

No. 125

Mutation Spots Location: 2982

Mutation Sequence: TGTATTGTTCTTTTTACCCTCCAGA

Mutation Spots: T to C

No. 126

Mutation Spots Location: 3058

Mutation Sequence: TCAATATGAGTATGGTACTGAAGAT

Mutation Spots: T to C

No. 127

Mutation Spots Location: 3099

Mutation Sequence: CTTTGGAATTTGGTGCCACTTCTGC

Mutation Spots: G to A

No. 128

Mutation Spots Location: 3205

Mutation Sequence: TGAGGACAATCAGACAACTACTATT

Mutation Spots: G to A

No. 129

Mutation Spots Location: 3249

Mutation Sequence: AACCTCAATTAGAGATGGAACTTAC

Mutation Spots: A to G

No. 130

Mutation Spots Location: 3278

Mutation Sequence: GTTGTTCAGACTATTGAAGTGAATA

Mutation Spots: A to G

No. 131

Mutation Spots Location: 3302

Mutation Sequence: AGTTTTAGTGGTTATTTAAAACTTA

Mutation Spots: T to G

No. 132

Mutation Spots Location: 3346

Mutation Sequence: AAATGCAGACATTGTGGAAGAAGCT

Mutation Spots: T to G

No. 133

Mutation Spots Location: 3373

Mutation Sequence: AAAGGTAAAACCAACAGTGGTTGTT

Mutation Spots: A to G

No. 134

Mutation Spots Location: 3391

Mutation Sequence: GGTTGTTAATGCAGCCAATGTTTAC

Mutation Spots: A to G

No. 135

Mutation Spots Location: 3403

Mutation Sequence: AGCCAATGTTTACCTTAAACATGGA

Mutation Spots: C to T

No. 136

Mutation Spots Location: 3405

Mutation Sequence: CCAATGTTTACCTTAAACATGGAGG

Mutation Spots: T to C

No. 137

Mutation Spots Location: 3446

Mutation Sequence: TTAAATAAGGCTACTAACAATGCCA

Mutation Spots: A to G

No. 138

Mutation Spots Location: 3463

Mutation Sequence: CAATGCCATGCAAGTTGAATCTGAT

Mutation Spots: A to G

No. 139

Mutation Spots Location: 3518

Mutation Sequence: GTGGGTGGTAGTTGTGTTTTAAGCG

Mutation Spots: T to C

No. 140

Mutation Spots Location: 3590

Mutation Sequence: AACAAAGGTGAAGACATTCAACTTC

Mutation Spots: G to A

No. 141

Mutation Spots Location: 3660

Mutation Sequence: CACCATTATTATCAGCTGGTATTTT

Mutation Spots: C to T

No. 142

Mutation Spots Location: 3661

Mutation Sequence: ACCATTATTATCAGCTGGTATTTTT

Mutation Spots: A to T

No. 143

Mutation Spots Location: 3728

Mutation Sequence: GTTCGCACAAATGTCTACTTAGCTG

Mutation Spots: G to A

No. 144

Mutation Spots Location: 3732

Mutation Sequence: GCACAAATGTCTACTTAGCTGTCTT

Mutation Spots: A to T

No. 145

Mutation Spots Location: 3783

Mutation Sequence: TTTCAAGCTTTTTGGAAATGAAGAG

Mutation Spots: T to C

No. 146

Mutation Spots Location: 3786

Mutation Sequence: CAAGCTTTTTGGAAATGAAGAGTGA

Mutation Spots: A to C

No. 147

Mutation Spots Location: 3792

Mutation Sequence: TTTTGGAAATGAAGAGTGAAAAGCA

Mutation Spots: A to G

No. 148

Mutation Spots Location: 3833

Mutation Sequence: GCTGAGATTCCTAAAGAGGAAGTTA

Mutation Spots: A to G

No. 149

Mutation Spots Location: 3863

Mutation Sequence: TTTATAACTGAAAGTAAACCTTCAG

Mutation Spots: A to G

No. 150

Mutation Spots Location: 3877

Mutation Sequence: TAAACCTTCAGTTGAACAGAGAAAA

Mutation Spots: T to C

No. 151

Mutation Spots Location: 3920

Mutation Sequence: AAAGCTTGTGTTGAAGAAGTTACAA

Mutation Spots: G to A

No. 152

Mutation Spots Location: 3931

Mutation Sequence: TGAAGAAGTTACAACAACTCTGGAA

Mutation Spots: A to T

No. 153

Mutation Spots Location: 3940

Mutation Sequence: TACAACAACTCTGGAAGAAACTAAG

Mutation Spots: G to A

No. 154

Mutation Spots Location: 3969

Mutation Sequence: TCACAGAAAACTTGTTACTTTATAT

Mutation Spots: T to C

No. 155

Mutation Spots Location: 3986

Mutation Sequence: CTTTATATTGACATTAATGGCAATC

Mutation Spots: A to G

No. 156

Mutation Spots Location: 4011

Mutation Sequence: TTCATCCAGATTCTGCCACTCTTGT

Mutation Spots: C to T

No. 157

Mutation Spots Location: 4018

Mutation Sequence: AGATTCTGCCACTCTTGTTAGTGAC

Mutation Spots: T to C

No. 158

Mutation Spots Location: 4069

Mutation Sequence: TGCTCCATATATAGTGGGTGATGTT

Mutation Spots: A to C

No. 159

Mutation Spots Location: 4127

Mutation Sequence: CCTACTAAAAAGGCTGGTGGCACTA

Mutation Spots: G to A

No. 160

Mutation Spots Location: 4147

Mutation Sequence: CACTACTGAAATGCTAGCGAAAGCT

Mutation Spots: G to A

No. 161

Mutation Spots Location: 4167

Mutation Sequence: AAGCTTTGAGAAAAGTGCCAACAGA

Mutation Spots: A to C

No. 162

Mutation Spots Location: 4186

Mutation Sequence: AACAGACAATTATATAACCACTTAC

Mutation Spots: T to C

No. 163

Mutation Spots Location: 4187

Mutation Sequence: ACAGACAATTATATAACCACTTACC

Mutation Spots: A to T

No. 164

Mutation Spots Location: 4192

Mutation Sequence: CAATTATATAACCACTTACCCGGGT

Mutation Spots: C to T

No. 165

Mutation Spots Location: 4195

Mutation Sequence: TTATATAACCACTTACCCGGGTCAG

Mutation Spots: T to C

No. 166

Mutation Spots Location: 4196

Mutation Sequence: TATATAACCACTTACCCGGGTCAGG

Mutation Spots: T to G

No. 167

Mutation Spots Location: 4203

Mutation Sequence: CCACTTACCCGGGTCAGGGTTTAAA

Mutation Spots: G to T

No. 168

Mutation Spots Location: 4207

Mutation Sequence: TTACCCGGGTCAGGGTTTAAATGGT

Mutation Spots: G to A

No. 169

Mutation Spots Location: 4208

Mutation Sequence: TACCCGGGTCAGGGTTTAAATGGTT

Mutation Spots: G to A

No. 170

Mutation Spots Location: 4224

Mutation Sequence: TAAATGGTTACACTGTAGAGGAGGC

Mutation Spots: C to T

No. 171

Mutation Spots Location: 4241

Mutation Sequence: GAGGAGGCAAAGACAGTGCTTAAAA

Mutation Spots: A to G

No. 172

Mutation Spots Location: 4279

Mutation Sequence: CTTTTACATTCTACCATCTATTATC

Mutation Spots: A to G

No. 173

Mutation Spots Location: 4329

Mutation Sequence: GAACTGTTTCTTGGAATTTGCGAGA

Mutation Spots: G to A

No. 174

Mutation Spots Location: 4396

Mutation Sequence: CTGTGTGGAAACTAAAGCCATAGTT

Mutation Spots: T to C

No. 175

Mutation Spots Location: 4414

Mutation Sequence: CATAGTTTCAACTATACAGCGTAAA

Mutation Spots: T to C

No. 176

Mutation Spots Location: 4423

Mutation Sequence: AACTATACAGCGTAAATATAAGGGT

Mutation Spots: T to C

No. 177

Mutation Spots Location: 4427

Mutation Sequence: ATACAGCGTAAATATAAGGGTATTA

Mutation Spots: T to C

No. 178

Mutation Spots Location: 4432

Mutation Sequence: GCGTAAATATAAGGGTATTAAAATA

Mutation Spots: G to A

No. 179

Mutation Spots Location: 4434

Mutation Sequence: GTAAATATAAGGGTATTAAAATACA

Mutation Spots: G to A

No. 180

Mutation Spots Location: 4438

Mutation Sequence: ATATAAGGGTATTAAAATACAAGAG

Mutation Spots: T to C

No. 181

Mutation Spots Location: 4451

Mutation Sequence: AAAATACAAGAGGGTGTGGTTGATT

Mutation Spots: G to A

No. 182

Mutation Spots Location: 4576

Mutation Sequence: CTATGTAACACATGGCTTAAATTTG

Mutation Spots: T to C

No. 183

Mutation Spots Location: 4604

Mutation Sequence: GAAGCTGCTCGGTATATGAGATCTC

Mutation Spots: T to C

No. 184

Mutation Spots Location: 4614

Mutation Sequence: GGTATATGAGATCTCTCAAAGTGCC

Mutation Spots: C to T

No. 185

Mutation Spots Location: 4637

Mutation Sequence: CCAGCTACAGTTTCTGTTTCTTCAC

Mutation Spots: T to C

No. 186

Mutation Spots Location: 4749

Mutation Sequence: GTTCCTATAAAGATTGGTCCTATTC

Mutation Spots: A to G

No. 187

Mutation Spots Location: 4787

Mutation Sequence: CAACTAGGTATAGAATTTCTTAAGA

Mutation Spots: G to A

No. 188

Mutation Spots Location: 4792

Mutation Sequence: AGGTATAGAATTTCTTAAGAGAGGT

Mutation Spots: T to C

No. 189

Mutation Spots Location: 4806

Mutation Sequence: TTAAGAGAGGTGATAAAAGTGTATA

Mutation Spots: A to G

No. 190

Mutation Spots Location: 4837

Mutation Sequence: TAGTAATCCTACCACATTCCACCTA

Mutation Spots: C to T

No. 191

Mutation Spots Location: 4854

Mutation Sequence: TCCACCTAGATGGTGAAGTTATCAC

Mutation Spots: G to C

No. 192

Mutation Spots Location: 4859

Mutation Sequence: CTAGATGGTGAAGTTATCACCTTTG

Mutation Spots: G to A

No. 193

Mutation Spots Location: 4869

Mutation Sequence: AAGTTATCACCTTTGACAATCTTAA

Mutation Spots: T to C

No. 194

Mutation Spots Location: 4922

Mutation Sequence: ACTATTAAGGTGTTTACAACAGTAG

Mutation Spots: T to C

No. 195

Mutation Spots Location: 4938

Mutation Sequence: CAACAGTAGACAACATTAACCTCCA

Mutation Spots: A to G

No. 196

Mutation Spots Location: 4939

Mutation Sequence: AACAGTAGACAACATTAACCTCCAC

Mutation Spots: C to T

No. 197

Mutation Spots Location: 4946

Mutation Sequence: GACAACATTAACCTCCACACGCAAG

Mutation Spots: C to G

No. 198

Mutation Spots Location: 4953

Mutation Sequence: TTAACCTCCACACGCAAGTTGTGGA

Mutation Spots: C to T

No. 199

Mutation Spots Location: 4957

Mutation Sequence: CCTCCACACGCAAGTTGTGGACATG

Mutation Spots: A to G

No. 200

Mutation Spots Location: 4972

Mutation Sequence: TGTGGACATGTCAATGACATATGGA

Mutation Spots: A to T

No. 201

Mutation Spots Location: 4996

Mutation Sequence: ACAACAGTTTGGTCCAACTTATTTG

Mutation Spots: T to C

No. 202

Mutation Spots Location: 4998

Mutation Sequence: AACAGTTTGGTCCAACTTATTTGGA

Mutation Spots: C to T

No. 203

Mutation Spots Location: 5010

Mutation Sequence: CAACTTATTTGGATGGAGCTGATGT

Mutation Spots: A to G

No. 204

Mutation Spots Location: 5029

Mutation Sequence: TGATGTTACTAAAATAAAACCTCAT

Mutation Spots: A to G

No. 205

Mutation Spots Location: 5100

Mutation Sequence: CTCTACGTGTTGAGGCTTTTGAGTA

Mutation Spots: A to C

No. 206

Mutation Spots Location: 5130

Mutation Sequence: ACACAACTGATCCTAGTTTTCTGGG

Mutation Spots: C to T

No. 207

Mutation Spots Location: 5146

Mutation Sequence: TTTTCTGGGTAGGTACATGTCAGCA

Mutation Spots: G to A

No. 208

Mutation Spots Location: 5180

Mutation Sequence: ACTAAAAAGTGGAAATACCCACAAG

Mutation Spots: A to G

No. 209

Mutation Spots Location: 5215

Mutation Sequence: AACTTCTATTAAATGGGCAGATAAC

Mutation Spots: A to G

No. 210

Mutation Spots Location: 5241

Mutation Sequence: ACTGTTATCTTGCCNNNNNNNNNNN

Mutation Spots: C to T

No. 211

Mutation Spots Location: 5545

Mutation Sequence: TTCTTATGAACAATTTAAGAAAGGT

Mutation Spots: A to G

No. 212

Mutation Spots Location: 5554

Mutation Sequence: ACAATTTAAGAAAGGTGTTCAGATA

Mutation Spots: A to G

No. 213

Mutation Spots Location: 5573

Mutation Sequence: CAGATACCTTGTACGTGTGGTAAAC

Mutation Spots: A to G

No. 214

Mutation Spots Location: 5608

Mutation Sequence: ATATCTAGTACAACAGGAGTCACCT

Mutation Spots: A to G

No. 215

Mutation Spots Location: 5610

Mutation Sequence: ATCTAGTACAACAGGAGTCACCTTT

Mutation Spots: A to C

No. 216

Mutation Spots Location: 5627

Mutation Sequence: TCACCTTTTGTTATGATGTCAGCAC

Mutation Spots: A to G

No. 217

Mutation Spots Location: 5690

Mutation Sequence: TGTGCTAGTGAGTACACTGGTAATT

Mutation Spots: T to C

No. 218

Mutation Spots Location: 5704

Mutation Sequence: CACTGGTAATTACCAGTGTGGTCAC

Mutation Spots: C to T

No. 219

Mutation Spots Location: 5749

Mutation Sequence: AGAAACTTTGTATTGCATAGACGGT

Mutation Spots: T to C

No. 220

Mutation Spots Location: 5771

Mutation Sequence: GGTGCTTTACTTACAAAGTCCTCAG

Mutation Spots: A to G

No. 221

Mutation Spots Location: 5786

Mutation Sequence: AAGTCCTCAGAATACAAAGGTCCTA

Mutation Spots: T to C

No. 222

Mutation Spots Location: 5822

Mutation Sequence: TTCTACAAAGAAAACAGTTACACAA

Mutation Spots: A to G

No. 223

Mutation Spots Location: 5831

Mutation Sequence: GAAAACAGTTACACAACAACCATAA

Mutation Spots: A to C

No. 224

Mutation Spots Location: 5925

Mutation Sequence: AGAAAGACAATTCTTATTTCACAGA

Mutation Spots: C to T

No. 225

Mutation Spots Location: 5939

Mutation Sequence: TATTTCACAGAGCAACCAATTGATC

Mutation Spots: C to T

No. 226

Mutation Spots Location: 5940

Mutation Sequence: ATTTCACAGAGCAACCAATTGATCT

Mutation Spots: A to T

No. 227

Mutation Spots Location: 5967

Mutation Sequence: TACCAAACCAACCATATCCAAACGC

Mutation Spots: C to T

No. 228

Mutation Spots Location: 5975

Mutation Sequence: CAACCATATCCAAACGCAAGCTTCG

Mutation Spots: A to G

No. 229

Mutation Spots Location: 5984

Mutation Sequence: CCAAACGCAAGCTTCGATAATTTTA

Mutation Spots: T to C

No. 230

Mutation Spots Location: 5992

Mutation Sequence: AAGCTTCGATAATTTTAAGTTTGTA

Mutation Spots: T to G

No. 231

Mutation Spots Location: 6119

Mutation Sequence: GATGTGGTGGCTATTGATTATAAAC

Mutation Spots: A to T

No. 232

Mutation Spots Location: 6140

Mutation Sequence: AAACACTACACACCCTCTTTTAAGA

Mutation Spots: C to T

No. 233

Mutation Spots Location: 6184

Mutation Sequence: TAAACCTATTGTTTGGCATGTTAAC

Mutation Spots: T to C

No. 234

Mutation Spots Location: 6185

Mutation Sequence: AAACCTATTGTTTGGCATGTTAACA

Mutation Spots: T to A

No. 235

Mutation Spots Location: 6194

Mutation Sequence: GTTTGGCATGTTAACAATGCAACTA

Mutation Spots: A to G

No. 236

Mutation Spots Location: 6210

Mutation Sequence: ATGCAACTAATAAAGCCACGTATAA

Mutation Spots: A to G

No. 237

Mutation Spots Location: 6218

Mutation Sequence: AATAAAGCCACGTATAAACCAAATA

Mutation Spots: T to A

No. 238

Mutation Spots Location: 6257

Mutation Sequence: TGTCTTTGGAGCACAAAACCAGTTG

Mutation Spots: A to T

No. 239

Mutation Spots Location: 6265

Mutation Sequence: GAGCACAAAACCAGTTGAAACATCA

Mutation Spots: A to T

No. 240

Mutation Spots Location: 6312

Mutation Sequence: CAGAGGACGCGCAGGGAATGGATAA

Mutation Spots: A to G

No. 241

Mutation Spots Location: 6316

Mutation Sequence: GGACGCGCAGGGAATGGATAATCTT

Mutation Spots: A to G

No. 242

Mutation Spots Location: 6319

Mutation Sequence: CGCGCAGGGAATGGATAATCTTGCC

Mutation Spots: G to A

No. 243

Mutation Spots Location: 6323

Mutation Sequence: CAGGGAATGGATAATCTTGCCTGCG

Mutation Spots: A to T

No. 244

Mutation Spots Location: 6346

Mutation Sequence: CGAAGATCTAAAACCAGTCTCTGAA

Mutation Spots: A to G

No. 245

Mutation Spots Location: 6372

Mutation Sequence: AAGTAGTGGAAAATCCTACCATACA

Mutation Spots: A to G

No. 246

Mutation Spots Location: 6373

Mutation Sequence: AGTAGTGGAAAATCCTACCATACAG

Mutation Spots: T to C

No. 247

Mutation Spots Location: 6469

Mutation Sequence: TAGTTTAAAAATTACAGAAGAGGTT

Mutation Spots: T to C

No. 248

Mutation Spots Location: 6479

Mutation Sequence: ATTACAGAAGAGGTTGGCCACACAG

Mutation Spots: G to C

No. 249

Mutation Spots Location: 6481

Mutation Sequence: TACAGAAGAGGTTGGCCACACAGAT

Mutation Spots: T to C

No. 250

Mutation Spots Location: 6486

Mutation Sequence: AAGAGGTTGGCCACACAGATCTAAT

Mutation Spots: A to G

No. 251

Mutation Spots Location: 6497

Mutation Sequence: CACACAGATCTAATGGCTGCTTATG

Mutation Spots: A to G

No. 252

Mutation Spots Location: 6520

Mutation Sequence: TGTAGACAATTCTAGTCTTACTATT

Mutation Spots: T to C

No. 253

Mutation Spots Location: 6533

Mutation Sequence: AGTCTTACTATTAAGAAACCTAATG

Mutation Spots: A to G

No. 254

Mutation Spots Location: 6609

Mutation Sequence: CTGTTAATAGTGTCCCTTGGGATAC

Mutation Spots: T to C

No. 255

Mutation Spots Location: 6647

Mutation Sequence: GCTAAGCCTTTTCTTAACAAAGTTG

Mutation Spots: C to T

No. 256

Mutation Spots Location: 6655

Mutation Sequence: TTTTCTTAACAAAGTTGTTAGTACA

Mutation Spots: A to G

No. 257

Mutation Spots Location: 6755

Mutation Sequence: CAATTGTGTACTTTTACTAGAAGTA

Mutation Spots: T to C

No. 258

Mutation Spots Location: 6776

Mutation Sequence: AGTACAAATTCTAGAATTAAAGCAT

Mutation Spots: A to T

No. 259

Mutation Spots Location: 6781

Mutation Sequence: AAATTCTAGAATTAAAGCATCTATG

Mutation Spots: T to C

No. 260

Mutation Spots Location: 6796

Mutation Sequence: AGCATCTATGCCGACTACTATAGCA

Mutation Spots: G to A

No. 261

Mutation Spots Location: 6821

Mutation Sequence: AAGAATACTGTTAAGAGTGTCGGTA

Mutation Spots: A to G

No. 262

Mutation Spots Location: 6850

Mutation Sequence: TTGTCTAGAGGCTTCATTTAATTAT

Mutation Spots: T to C

No. 263

Mutation Spots Location: 6854

Mutation Sequence: CTAGAGGCTTCATTTAATTATTTGA

Mutation Spots: T to C

No. 264

Mutation Spots Location: 6871

Mutation Sequence: TTATTTGAAGTCACCTAATTTTTCT

Mutation Spots: A to G

No. 265

Mutation Spots Location: 6887

Mutation Sequence: AATTTTTCTAAACTGATAAATATTA

Mutation Spots: C to T

No. 266

Mutation Spots Location: 6904

Mutation Sequence: AAATATTATAATTTGGTTTTTACTA

Mutation Spots: T to C

No. 267

Mutation Spots Location: 6906

Mutation Sequence: ATATTATAATTTGGTTTTTACTATT

Mutation Spots: G to A

No. 268

Mutation Spots Location: 6930

Mutation Sequence: TAAGTGTTTGCCTAGGTTCTTTAAT

Mutation Spots: T to C

No. 269

Mutation Spots Location: 6934

Mutation Sequence: TGTTTGCCTAGGTTCTTTAATCTAC

Mutation Spots: T to C

No. 270

Mutation Spots Location: 6963

Mutation Sequence: CCGCTGCTTTAGGTGTTTTAATGTC

Mutation Spots: G to A

No. 271

Mutation Spots Location: 7039

Mutation Sequence: CTCTACTAATGTCACTATTGCAACC

Mutation Spots: C to T

No. 272

Mutation Spots Location: 7057

Mutation Sequence: TGCAACCTACTGTACTGGTTCTATA

Mutation Spots: T to C

No. 273

Mutation Spots Location: 7095

Mutation Sequence: GTCTTAGTGGTTTAGATTCTTTAGA

Mutation Spots: T to C

No. 274

Mutation Spots Location: 7170

Mutation Sequence: GGGATTTAACTGCTTTTGGCTTAGT

Mutation Spots: C to T

No. 275

Mutation Spots Location: 7198

Mutation Sequence: AGAGTGGTTTTTGGCATATATTCTT

Mutation Spots: G to A

No. 276

Mutation Spots Location: 7206

Mutation Sequence: TTTTGGCATATATTCTTTTCACTAG

Mutation Spots: T to C

No. 277

Mutation Spots Location: 7297

Mutation Sequence: TATTAGTAATTCTTGGCTTATGTGG

Mutation Spots: T to A

No. 278

Mutation Spots Location: 7319

Mutation Sequence: TGGTTAATAATTAATCTTGTACAAA

Mutation Spots: A to T

No. 279

Mutation Spots Location: 7322

Mutation Sequence: TTAATAATTAATCTTGTACAAATGG

Mutation Spots: C to A

No. 280

Mutation Spots Location: 7354

Mutation Sequence: TTCAGCTATGGTTAGAATGTACATC

Mutation Spots: T to G

No. 281

Mutation Spots Location: 7386

Mutation Sequence: CATCATTTTATTATGTATGGAAAAG

Mutation Spots: A to C

No. 282

Mutation Spots Location: 7389

Mutation Sequence: CATTTTATTATGTATGGAAAAGTTA

Mutation Spots: T to A

No. 283

Mutation Spots Location: 7399

Mutation Sequence: TGTATGGAAAAGTTATGTGCATGTT

Mutation Spots: T to C

No. 284

Mutation Spots Location: 7441

Mutation Sequence: ATCAACTTGTATGATGTGTTACAAA

Mutation Spots: G to A

No. 285

Mutation Spots Location: 7445

Mutation Sequence: ACTTGTATGATGTGTTACAAACGTA

Mutation Spots: T to C

No. 286

Mutation Spots Location: 7480

Mutation Sequence: AAGAGTCGAATGTACAACTATTGTT

Mutation Spots: T to C

No. 287

Mutation Spots Location: 7541

Mutation Sequence: GGAGGTAAAGGCTTTTGCAAACTAC

Mutation Spots: T to C

No. 288

Mutation Spots Location: 7588

Mutation Sequence: TGATACATTCTGTGCTGGTAGTACA

Mutation Spots: T to C

No. 289

Mutation Spots Location: 7618

Mutation Sequence: TAGTGATGAAGTTGCGAGAGACTTG

Mutation Spots: T to G

No. 290

Mutation Spots Location: 7633

Mutation Sequence: GAGAGACTTGTCACTACAGTTTAAA

Mutation Spots: A to C

No. 291

Mutation Spots Location: 7647

Mutation Sequence: TACAGTTTAAAAGACCAATAAATCC

Mutation Spots: G to A

No. 292

Mutation Spots Location: 7679

Mutation Sequence: CAGTCTTCTTACATCGTTGATAGTG

Mutation Spots: A to G

No. 293

Mutation Spots Location: 7690

Mutation Sequence: CATCGTTGATAGTGTTACAGTGAAG

Mutation Spots: T to C

No. 294

Mutation Spots Location: 7721

Mutation Sequence: TCCATCCATCTTTACTTTGATAAAG

Mutation Spots: T to C

No. 295

Mutation Spots Location: 7735

Mutation Sequence: CTTTGATAAAGCTGGTCAAAAGACT

Mutation Spots: T to A

No. 296

Mutation Spots Location: 7798

Mutation Sequence: CAACCTGAGAGCTAATAACACTAAA

Mutation Spots: T to C

No. 297

Mutation Spots Location: 7852

Mutation Sequence: TGATGGTAAATCAAAATGTGAAGAA

Mutation Spots: A to G

No. 298

Mutation Spots Location: 7875

Mutation Sequence: AATCATCTGCAAAATCAGCGTCTGT

Mutation Spots: A to C

No. 299

Mutation Spots Location: 7878

Mutation Sequence: CATCTGCAAAATCAGCGTCTGTTTA

Mutation Spots: C to T

No. 300

Mutation Spots Location: 7886

Mutation Sequence: AAATCAGCGTCTGTTTACTACAGTC

Mutation Spots: G to A

No. 301

Mutation Spots Location: 7935

Mutation Sequence: TACTAGATCAGGCATTAGTGTCTGA

Mutation Spots: C to T

No. 302

Mutation Spots Location: 7940

Mutation Sequence: GATCAGGCATTAGTGTCTGATGTTG

Mutation Spots: G to A

No. 303

Mutation Spots Location: 7957

Mutation Sequence: TGATGTTGGTGATAGTGCGGAAGTT

Mutation Spots: T to C

No. 304

Mutation Spots Location: 7983

Mutation Sequence: CAGTTAAAATGTTTGATGCTTACGT

Mutation Spots: T to C

No. 305

Mutation Spots Location: 7997

Mutation Sequence: GATGCTTACGTTAATACGTTTTCAT

Mutation Spots: A to G

No. 306

Mutation Spots Location: 8003

Mutation Sequence: TACGTTAATACGTTTTCATCAACTT

Mutation Spots: T to C

No. 307

Mutation Spots Location: 8026

Mutation Sequence: TTTTAACGTACCAATGGAAAAACTC

Mutation Spots: A to T

No. 308

Mutation Spots Location: 8074

Mutation Sequence: AGCTGAACTTGCAAAGAATGTGTCC

Mutation Spots: A to G

No. 309

Mutation Spots Location: 8110

Mutation Sequence: CTTATCTACTTTTATTTCAGCAGCT

Mutation Spots: T to C

No. 310

Mutation Spots Location: 8112

Mutation Sequence: TATCTACTTTTATTTCAGCAGCTCG

Mutation Spots: T to C

No. 311

Mutation Spots Location: 8152

Mutation Sequence: TTCAGATGTAGAAACTAAAGATGTT

Mutation Spots: A to G

No. 312

Mutation Spots Location: 8170

Mutation Sequence: AGATGTTGTTGAATGTCTTAAATTG

Mutation Spots: A to G

No. 313

Mutation Spots Location: 8172

Mutation Sequence: ATGTTGTTGAATGTCTTAAATTGTC

Mutation Spots: G to A

No. 314

Mutation Spots Location: 8175

Mutation Sequence: TTGTTGAATGTCTTAAATTGTCACA

Mutation Spots: T to C

No. 315

Mutation Spots Location: 8205

Mutation Sequence: CTGACATAGAAGTTACTGGCGATAG

Mutation Spots: T to C

No. 316

Mutation Spots Location: 8225

Mutation Sequence: GATAGTTGTAATAACTATATGCTCA

Mutation Spots: A to G

No. 317

Mutation Spots Location: 8257

Mutation Sequence: CAAAGTTGAAAACATGACACCCCGT

Mutation Spots: C to A

No. 318

Mutation Spots Location: 8265

Mutation Sequence: AAAACATGACACCCCGTGACCTTGG

Mutation Spots: C to A

No. 319

Mutation Spots Location: 8273

Mutation Sequence: ACACCCCGTGACCTTGGTGCTTGTA

Mutation Spots: C to T

No. 320

Mutation Spots Location: 8275

Mutation Sequence: ACCCCGTGACCTTGGTGCTTGTATT

Mutation Spots: T to C

No. 321

Mutation Spots Location: 8352

Mutation Sequence: CTTTGATATGGAACGTTAAAGATTT

Mutation Spots: A to G

No. 322

Mutation Spots Location: 8368

Mutation Sequence: TAAAGATTTCATGTCATTGTCTGAA

Mutation Spots: G to A

No. 323

Mutation Spots Location: 8386

Mutation Sequence: GTCTGAACAACTACGAAAACAAATA

Mutation Spots: A to G

No. 324

Mutation Spots Location: 8446

Mutation Sequence: GTTGACATGTGCAACTACTAGACAA

Mutation Spots: A to G

No. 325

Mutation Spots Location: 8448

Mutation Sequence: TGACATGTGCAACTACTAGACAAGT

Mutation Spots: C to G

No. 326

Mutation Spots Location: 8487

Mutation Sequence: CAACAAAGATAGCACTTAAGGGTGG

Mutation Spots: C to T

No. 327

Mutation Spots Location: 8488

Mutation Sequence: AACAAAGATAGCACTTAAGGGTGGT

Mutation Spots: A to G

No. 328

Mutation Spots Location: 8490

Mutation Sequence: CAAAGATAGCACTTAAGGGTGGTAA

Mutation Spots: T to C

No. 329

Mutation Spots Location: 8523

Mutation Sequence: ATAATTGGTTGAAGCAGTTAATTAA

Mutation Spots: A to G

No. 330

Mutation Spots Location: 8551

Mutation Sequence: TACACTTGTGTTCCTTTTTGTTGCT

Mutation Spots: C to T

No. 331

Mutation Spots Location: 8573

Mutation Sequence: GCTGCTATTTTCTATTTAATAACAC

Mutation Spots: T to C

No. 332

Mutation Spots Location: 8593

Mutation Sequence: AACACCTGTTCATGTCATGTCTAAA

Mutation Spots: T to G

No. 333

Mutation Spots Location: 8615

Mutation Sequence: AAACATACTGACTTTTCAAGTGAAA

Mutation Spots: T to C

No. 334

Mutation Spots Location: 8674

Mutation Sequence: TCGTGACATAGCATCTACAGATACT

Mutation Spots: A to G

No. 335

Mutation Spots Location: 8753

Mutation Sequence: AGTTATACTAATGACAAAGCTTGCC

Mutation Spots: G to A

No. 336

Mutation Spots Location: 8763

Mutation Sequence: ATGACAAAGCTTGCCCATTGATTGC

Mutation Spots: G to A

No. 337

Mutation Spots Location: 8767

Mutation Sequence: CAAAGCTTGCCCATTGATTGCTGCA

Mutation Spots: A to C

No. 338

Mutation Spots Location: 8804

Mutation Sequence: GAAGTGGGTTTTGTCGTGCCTGGTT

Mutation Spots: G to A

No. 339

Mutation Spots Location: 8887

Mutation Sequence: TTTTAGTGCAGTTGGTAACATCTGT

Mutation Spots: T to C

No. 340

Mutation Spots Location: 8935

Mutation Sequence: GTACACTGACTTTGCAACATCAGCT

Mutation Spots: T to C

No. 341

Mutation Spots Location: 8957

Mutation Sequence: GCTTGTGTTTTGGCTGCTGAATGTA

Mutation Spots: G to A

No. 342

Mutation Spots Location: 8967

Mutation Sequence: TGGCTGCTGAATGTACAATTTTTAA

Mutation Spots: G to A

No. 343

Mutation Spots Location: 8968

Mutation Sequence: GGCTGCTGAATGTACAATTTTTAAA

Mutation Spots: T to C

No. 344

Mutation Spots Location: 8992

Mutation Sequence: AGATGCTTCTGGTAAGCCAGTACCA

Mutation Spots: T to C

No. 345

Mutation Spots Location: 9048

Mutation Sequence: CTGTTGCTTATGAAAGTTTACGCCC

Mutation Spots: A to G

No. 346

Mutation Spots Location: 9058

Mutation Sequence: TGAAAGTTTACGCCCTGACACACGT

Mutation Spots: C to A

No. 347

Mutation Spots Location: 9072

Mutation Sequence: CTGACACACGTTATGTGCTCATGGA

Mutation Spots: A to G

No. 348

Mutation Spots Location: 9127

Mutation Sequence: CCTTGAAGGTTCTGTTAGAGTGGTA

Mutation Spots: T to A

No. 349

Mutation Spots Location: 9138

Mutation Sequence: CTGTTAGAGTGGTAACAACTTTTGA

Mutation Spots: T to C

No. 350

Mutation Spots Location: 9140

Mutation Sequence: GTTAGAGTGGTAACAACTTTTGATT

Mutation Spots: A to G

No. 351

Mutation Spots Location: 9177

Mutation Sequence: GGCACGGCACTTGTGAAAGATCAGA

Mutation Spots: G to A

No. 352

Mutation Spots Location: 9201

Mutation Sequence: AAGCTGGTGTTTGTGTATCTACTAG

Mutation Spots: G to A

No. 353

Mutation Spots Location: 9202

Mutation Sequence: AGCTGGTGTTTGTGTATCTACTAGT

Mutation Spots: T to C

No. 354

Mutation Spots Location: 9273

Mutation Sequence: TTTTCTGTGGTGTAGATGCTGTAAA

Mutation Spots: T to C

No. 355

Mutation Spots Location: 9285

Mutation Sequence: TAGATGCTGTAAATTTACTTACTAA

Mutation Spots: A to C

No. 356

Mutation Spots Location: 9319

Mutation Sequence: ACCACTAATTCAACCTATTGGTGCT

Mutation Spots: A to G

No. 357

Mutation Spots Location: 9323

Mutation Sequence: CTAATTCAACCTATTGGTGCTTTGG

Mutation Spots: A to G

No. 358

Mutation Spots Location: 9334

Mutation Sequence: TATTGGTGCTTTGGACATATCAGCA

Mutation Spots: G to A

No. 359

Mutation Spots Location: 9340

Mutation Sequence: TGCTTTGGACATATCAGCATCTATA

Mutation Spots: A to T

No. 360

Mutation Spots Location: 9343

Mutation Sequence: TTTGGACATATCAGCATCTATAGTA

Mutation Spots: A to G

No. 361

Mutation Spots Location: 9345

Mutation Sequence: TGGACATATCAGCATCTATAGTAGC

Mutation Spots: C to A

No. 362

Mutation Spots Location: 9346

Mutation Sequence: GGACATATCAGCATCTATAGTAGCT

Mutation Spots: A to T

No. 363

Mutation Spots Location: 9372

Mutation Sequence: GTGGTATTGTAGCTATCGTAGTAAC

Mutation Spots: C to T

No. 364

Mutation Spots Location: 9390

Mutation Sequence: TAGTAACATGCCTTGCCTACTATTT

Mutation Spots: T to A

No. 365

Mutation Spots Location: 9404

Mutation Sequence: GCCTACTATTTTATGAGGTTTAGAA

Mutation Spots: A to G

No. 366

Mutation Spots Location: 9421

Mutation Sequence: GTTTAGAAGAGCTTTTGGTGAATAC

Mutation Spots: T to C

No. 367

Mutation Spots Location: 9557

Mutation Sequence: TTGACATTTTATCTTACTAATGATG

Mutation Spots: C to T

No. 368

Mutation Spots Location: 9577

Mutation Sequence: TGATGTTTCTTTTTTAGCACATATT

Mutation Spots: T to C

No. 369

Mutation Spots Location: 9613

Mutation Sequence: TATGTTCACACCTTTAGTACCTTTC

Mutation Spots: T to C

No. 370

Mutation Spots Location: 9619

Mutation Sequence: CACACCTTTAGTACCTTTCTGGATA

Mutation Spots: A to T

No. 371

Mutation Spots Location: 9628

Mutation Sequence: AGTACCTTTCTGGATAACAATTGCT

Mutation Spots: G to A

No. 372

Mutation Spots Location: 9635

Mutation Sequence: TTCTGGATAACAATTGCTTATATCA

Mutation Spots: A to G

No. 373

Mutation Spots Location: 9640

Mutation Sequence: GATAACAATTGCTTATATCATTTGT

Mutation Spots: T to C

No. 374

Mutation Spots Location: 9641

Mutation Sequence: ATAACAATTGCTTATATCATTTGTA

Mutation Spots: T to C

No. 375

Mutation Spots Location: 9658

Mutation Sequence: CATTTGTATTTCCACAAAGCATTTC

Mutation Spots: C to T

No. 376

Mutation Spots Location: 9681

Mutation Sequence: TCTATTGGTTCTTTAGTAATTACCT

Mutation Spots: T to C

No. 377

Mutation Spots Location: 9697

Mutation Sequence: TAATTACCTAAAGAGACGTGTAGTC

Mutation Spots: G to A

No. 378

Mutation Spots Location: 9707

Mutation Sequence: AAGAGACGTGTAGTCTTTAATGGTG

Mutation Spots: G to A

No. 379

Mutation Spots Location: 9715

Mutation Sequence: TGTAGTCTTTAATGGTGTTTCCTTT

Mutation Spots: T to C

No. 380

Mutation Spots Location: 9724

Mutation Sequence: TAATGGTGTTTCCTTTAGTACTTTT

Mutation Spots: C to T

No. 381

Mutation Spots Location: 9742

Mutation Sequence: TACTTTTGAAGAAGCTGCGCTGTGC

Mutation Spots: A to G

No. 382

Mutation Spots Location: 9745

Mutation Sequence: TTTTGAAGAAGCTGCGCTGTGCACC

Mutation Spots: T to A

No. 383

Mutation Spots Location: 9754

Mutation Sequence: AGCTGCGCTGTGCACCTTTTTGTTA

Mutation Spots: C to G

No. 384

Mutation Spots Location: 9918

Mutation Sequence: GTCATCTCGCAAAGGCTCTCAATGA

Mutation Spots: A to G

No. 385

Mutation Spots Location: 9922

Mutation Sequence: TCTCGCAAAGGCTCTCAATGACTTC

Mutation Spots: T to C

No. 386

Mutation Spots Location: 9955

Mutation Sequence: AGGTTCTGATGTTCTTTACCAACCA

Mutation Spots: T to C

No. 387

Mutation Spots Location: 9967

Mutation Sequence: TCTTTACCAACCACCACAAACCTCT

Mutation Spots: A to T

No. 388

Mutation Spots Location: 10008

Mutation Sequence: TGCAGAGTGGTTTTAGAAAAATGGC

Mutation Spots: T to C

No. 389

Mutation Spots Location: 10012

Mutation Sequence: GAGTGGTTTTAGAAAAATGGCATTC

Mutation Spots: A to G

No. 390

Mutation Spots Location: 10048

Mutation Sequence: AGTTGAGGGTTGTATGGTACAAGTA

Mutation Spots: T to C

No. 391

Mutation Spots Location: 10069

Mutation Sequence: AGTAACTTGTGGTACAACTACACTT

Mutation Spots: T to C

No. 392

Mutation Spots Location: 10076

Mutation Sequence: TGTGGTACAACTACACTTAACGGTC

Mutation Spots: A to G

No. 393

Mutation Spots Location: 10082

Mutation Sequence: ACAACTACACTTAACGGTCTTTGGC

Mutation Spots: A to G

No. 394

Mutation Spots Location: 10148

Mutation Sequence: TCTGAAGACATGCTTAACCCTAATT

Mutation Spots: C to T

No. 395

Mutation Spots Location: 10205

Mutation Sequence: AATTTCTTGGTACAGGCTGGTAATG

Mutation Spots: C to T

No. 396

Mutation Spots Location: 10214

Mutation Sequence: GTACAGGCTGGTAATGTTCAACTCA

Mutation Spots: A to G

No. 397

Mutation Spots Location: 10217

Mutation Sequence: CAGGCTGGTAATGTTCAACTCAGGG

Mutation Spots: G to A

No. 398

Mutation Spots Location: 10250

Mutation Sequence: CATTCTATGCAAAATTGTGTACTTA

Mutation Spots: A to G

No. 399

Mutation Spots Location: 10260

Mutation Sequence: AAAATTGTGTACTTAAGCTTAAGGT

Mutation Spots: T to C

No. 400

Mutation Spots Location: 10289

Mutation Sequence: ACAGCCAATCCTAAGACACCTAAGT

Mutation Spots: A to T

No. 401

Mutation Spots Location: 10291

Mutation Sequence: AGCCAATCCTAAGACACCTAAGTAT

Mutation Spots: G to A

No. 402

Mutation Spots Location: 10339

Mutation Sequence: ACAGACTTTTTCAGTGTTAGCTTGT

Mutation Spots: A to T

No. 403

Mutation Spots Location: 10388

Mutation Sequence: TACCAATGTGCTATGAGGCCCAATT

Mutation Spots: A to C

No. 404

Mutation Spots Location: 10422

Mutation Sequence: AGGGTTCATTCCTTAATGGTTCATG

Mutation Spots: T to C

No. 405

Mutation Spots Location: 10424

Mutation Sequence: GGTTCATTCCTTAATGGTTCATGTG

Mutation Spots: A to G

No. 406

Mutation Spots Location: 10451

Mutation Sequence: AGTGTTGGTTTTAACATAGATTATG

Mutation Spots: A to C

No. 407

Mutation Spots Location: 10463

Mutation Sequence: AACATAGATTATGACTGTGTCTCTT

Mutation Spots: G to A

No. 408

Mutation Spots Location: 10504

Mutation Sequence: TATGGAATTACCAACTGGAGTTCAT

Mutation Spots: A to C

No. 409

Mutation Spots Location: 10521

Mutation Sequence: GAGTTCATGCTGGCACAGACTTAGA

Mutation Spots: G to A

No. 410

Mutation Spots Location: 10530

Mutation Sequence: CTGGCACAGACTTAGAAGGTAACTT

Mutation Spots: T to A

No. 411

Mutation Spots Location: 10534

Mutation Sequence: CACAGACTTAGAAGGTAACTTTTAT

Mutation Spots: A to G

No. 412

Mutation Spots Location: 10536

Mutation Sequence: CAGACTTAGAAGGTAACTTTTATGG

Mutation Spots: G to T

No. 413

Mutation Spots Location: 10537

Mutation Sequence: AGACTTAGAAGGTAACTTTTATGGA

Mutation Spots: T to C

No. 414

Mutation Spots Location: 10539

Mutation Sequence: ACTTAGAAGGTAACTTTTATGGACC

Mutation Spots: A to G

No. 415

Mutation Spots Location: 10549

Mutation Sequence: TAACTTTTATGGACCTTTTGTTGAC

Mutation Spots: A to G

No. 416

Mutation Spots Location: 10553

Mutation Sequence: TTTTATGGACCTTTTGTTGACAGGC

Mutation Spots: T to C

No. 417

Mutation Spots Location: 10595

Mutation Sequence: GGTACGGACACAACTATTACAGTTA

Mutation Spots: A to G

No. 418

Mutation Spots Location: 10607

Mutation Sequence: ACTATTACAGTTAATGTTTTAGCTT

Mutation Spots: A to G

No. 419

Mutation Spots Location: 10746

Mutation Sequence: ACCATGTTGACATACTAGGACCTCT

Mutation Spots: T to C

No. 420

Mutation Spots Location: 10810

Mutation Sequence: TTCATTAAAAGAATTACTGCAAAAT

Mutation Spots: A to G

No. 421

Mutation Spots Location: 10831

Mutation Sequence: AAATGGTATGAATGGACGTACCATA

Mutation Spots: T to G

No. 422

Mutation Spots Location: 10843

Mutation Sequence: TGGACGTACCATATTGGGTAGTGCT

Mutation Spots: A to C

No. 423

Mutation Spots Location: 10846

Mutation Sequence: ACGTACCATATTGGGTAGTGCTTTA

Mutation Spots: G to A

No. 424

Mutation Spots Location: 10939

Mutation Sequence: GAAAAGAACAATCAAGGGTACACAC

Mutation Spots: C to T

No. 425

Mutation Spots Location: 10971

Mutation Sequence: TGTTACTCACAATTTTGACTTCACT

Mutation Spots: T to C

No. 426

Mutation Spots Location: 10973

Mutation Sequence: TTACTCACAATTTTGACTTCACTTT

Mutation Spots: T to C

No. 427

Mutation Spots Location: 11007

Mutation Sequence: TCCAGAGTACTCAATGGTCTTTGTT

Mutation Spots: A to T

No. 428

Mutation Spots Location: 11063

Mutation Sequence: TTTGCTATGGGTATTATTGCTATGT

Mutation Spots: A to G

No. 429

Mutation Spots Location: 11106

Mutation Sequence: TTGTCAAACATAAGCATGCATTTCT

Mutation Spots: A to G

No. 430

Mutation Spots Location: 11137

Mutation Sequence: GTTTTTGTTACCTTCTCTTGCCACT

Mutation Spots: T to C

No. 431

Mutation Spots Location: 11143

Mutation Sequence: GTTACCTTCTCTTGCCACTGTAGCT

Mutation Spots: T to G

No. 432

Mutation Spots Location: 11220

Mutation Sequence: GGTTGGATATGGTTGATACTAGTTT

Mutation Spots: T to C

No. 433

Mutation Spots Location: 11227

Mutation Sequence: TATGGTTGATACTAGTTTGTCTGGT

Mutation Spots: T to C

No. 434

Mutation Spots Location: 11257

Mutation Sequence: GCTAAAAGACTGTGTTATGTATGCA

Mutation Spots: T to C

No. 435

Mutation Spots Location: 11261

Mutation Sequence: AAAGACTGTGTTATGTATGCATCAG

Mutation Spots: A to G

No. 436

Mutation Spots Location: 11278

Mutation Sequence: TGCATCAGCTGTAGTGTTACTAATC

Mutation Spots: A to G

No. 437

Mutation Spots Location: 11305

Mutation Sequence: TATGACAGCAAGAACTGTGTATGAT

Mutation Spots: A to G

No. 438

Mutation Spots Location: 11399

Mutation Sequence: GCTTTAGATCAAGCCATTTCCATGT

Mutation Spots: G to A

No. 439

Mutation Spots Location: 11411

Mutation Sequence: GCCATTTCCATGTGGGCTCTTATAA

Mutation Spots: T to A

No. 440

Mutation Spots Location: 11423

Mutation Sequence: TGGGCTCTTATAATCTCTGTTACTT

Mutation Spots: A to G

No. 441

Mutation Spots Location: 11466

Mutation Sequence: TTACAACTGTCATGTTTTTGGCCAG

Mutation Spots: T to C

No. 442

Mutation Spots Location: 11497

Mutation Sequence: TGTTTTTATGTGTGTTGAGTATTGC

Mutation Spots: T to G

No. 443

Mutation Spots Location: 11513

Mutation Sequence: GAGTATTGCCCTATTTTCTTCATAA

Mutation Spots: A to C

No. 444

Mutation Spots Location: 11516

Mutation Sequence: TATTGCCCTATTTTCTTCATAACTG

Mutation Spots: T to C

No. 445

Mutation Spots Location: 11534

Mutation Sequence: ATAACTGGTAATACACTTCAGTGTA

Mutation Spots: A to G

No. 446

Mutation Spots Location: 11545

Mutation Sequence: TACACTTCAGTGTATAATGCTAGTT

Mutation Spots: T to C

No. 447

Mutation Spots Location: 11576

Mutation Sequence: TTCTTAGGCTATTTTTGTACTTGTT

Mutation Spots: T to C

No. 448

Mutation Spots Location: 11588

Mutation Sequence: TTTTGTACTTGTTACTTTGGCCTCT

Mutation Spots: T to A

No. 449

Mutation Spots Location: 11610

Mutation Sequence: TCTTTTGTTTACTCAACCGCTACTT

Mutation Spots: T to C

No. 450

Mutation Spots Location: 11624

Mutation Sequence: AACCGCTACTTTAGACTGACTCTTG

Mutation Spots: A to T

No. 451

Mutation Spots Location: 11626

Mutation Sequence: CCGCTACTTTAGACTGACTCTTGGT

Mutation Spots: A to G

No. 452

Mutation Spots Location: 11667

Mutation Sequence: TTTCTACACAGGAGTTTAGATATAT

Mutation Spots: A to G

No. 453

Mutation Spots Location: 11669

Mutation Sequence: TCTACACAGGAGTTTAGATATATGA

Mutation Spots: T to C

No. 454

Mutation Spots Location: 11670

Mutation Sequence: CTACACAGGAGTTTAGATATATGAA

Mutation Spots: T to C

No. 455

Mutation Spots Location: 11674

Mutation Sequence: ACAGGAGTTTAGATATATGAATTCA

Mutation Spots: A to T

No. 456

Mutation Spots Location: 11688

Mutation Sequence: ATATGAATTCACAGGGACTACTCCC

Mutation Spots: A to G

No. 457

Mutation Spots Location: 11749

Mutation Sequence: TAAATTGTTGGGTGTTGGTGGCAAA

Mutation Spots: T to C

No. 458

Mutation Spots Location: 11759

Mutation Sequence: GGTGTTGGTGGCAAACCTTGTATCA

Mutation Spots: A to G

No. 459

Mutation Spots Location: 11763

Mutation Sequence: TTGGTGGCAAACCTTGTATCAAAGT

Mutation Spots: C to T

No. 460

Mutation Spots Location: 11764

Mutation Sequence: TGGTGGCAAACCTTGTATCAAAGTA

Mutation Spots: T to A

No. 461

Mutation Spots Location: 11833

Mutation Sequence: AGTCTTACTCTCAGTTTTGCAACAA

Mutation Spots: A to T

No. 462

Mutation Spots Location: 11837

Mutation Sequence: TTACTCTCAGTTTTGCAACAACTCA

Mutation Spots: T to C

No. 463

Mutation Spots Location: 11864

Mutation Sequence: GTAGAATCATCATCTAAATTGTGGG

Mutation Spots: T to C

No. 464

Mutation Spots Location: 11891

Mutation Sequence: CAATGTGTCCAGTTACACAATGACA

Mutation Spots: T to C

No. 465

Mutation Spots Location: 11949

Mutation Sequence: AAAAAATGGTTTCACTACTTTCTGT

Mutation Spots: C to T

No. 466

Mutation Spots Location: 11950

Mutation Sequence: AAAAATGGTTTCACTACTTTCTGTT

Mutation Spots: A to T

No. 467

Mutation Spots Location: 11962

Mutation Sequence: ACTACTTTCTGTTTTGCTTTCCATG

Mutation Spots: T to C

No. 468

Mutation Spots Location: 12030

Mutation Sequence: ACAACAGGGCAACCTTACAAGCTAT

Mutation Spots: C to T

No. 469

Mutation Spots Location: 12169

Mutation Sequence: GTCTTTGAATGTGGCTAAATCTGAA

Mutation Spots: G to A

No. 470

Mutation Spots Location: 12200

Mutation Sequence: CGTGATGCAGCCATGCAACGTAAGT

Mutation Spots: A to C

No. 471

Mutation Spots Location: 12206

Mutation Sequence: GCAGCCATGCAACGTAAGTTGGAAA

Mutation Spots: C to T

No. 472

Mutation Spots Location: 12219

Mutation Sequence: GTAAGTTGGAAAAGATGGCTGATCA

Mutation Spots: A to G

No. 473

Mutation Spots Location: 12228

Mutation Sequence: AAAAGATGGCTGATCAAGCTATGAC

Mutation Spots: A to C

No. 474

Mutation Spots Location: 12235

Mutation Sequence: GGCTGATCAAGCTATGACCCAAATG

Mutation Spots: T to G

No. 475

Mutation Spots Location: 12281

Mutation Sequence: GACAAGAGGGCAAAAGTTACTAGTG

Mutation Spots: A to C

No. 476

Mutation Spots Location: 12376

Mutation Sequence: TGCAAGAGATGGTTGTGTTCCCTTG

Mutation Spots: T to C

No. 477

Mutation Spots Location: 12382

Mutation Sequence: AGATGGTTGTGTTCCCTTGAACATA

Mutation Spots: T to C

No. 478

Mutation Spots Location: 12403

Mutation Sequence: CATAATACCTCTTACAACAGCAGCC

Mutation Spots: T to C

No. 479

Mutation Spots Location: 12417

Mutation Sequence: CAACAGCAGCCAAACTAATGGTTGT

Mutation Spots: A to G

No. 480

Mutation Spots Location: 12440

Mutation Sequence: GTCATACCAGACTATAACACATATA

Mutation Spots: T to C

No. 481

Mutation Spots Location: 12443

Mutation Sequence: ATACCAGACTATAACACATATAAAA

Mutation Spots: A to G

No. 482

Mutation Spots Location: 12465

Mutation Sequence: AAAATACGTGTGATGGTACAACATT

Mutation Spots: A to G

No. 483

Mutation Spots Location: 12523

Mutation Sequence: GGTTGTAGATGCAGATAGTAAAATT

Mutation Spots: A to T

No. 484

Mutation Spots Location: 12562

Mutation Sequence: AATTAGTATGGACAATTCACCTAAT

Mutation Spots: C to T

No. 485

Mutation Spots Location: 12583

Mutation Sequence: TAATTTAGCATGGCCTCTTATTGTA

Mutation Spots: G to A

No. 486

Mutation Spots Location: 12614

Mutation Sequence: TTAAGGGCCAATTCTGCTGTCAAAT

Mutation Spots: T to A

No. 487

Mutation Spots Location: 12632

Mutation Sequence: GTCAAATTACAGAATAATGAGCTTA

Mutation Spots: A to G

No. 488

Mutation Spots Location: 12635

Mutation Sequence: AAATTACAGAATAATGAGCTTAGTC

Mutation Spots: A to C

No. 489

Mutation Spots Location: 12637

Mutation Sequence: ATTACAGAATAATGAGCTTAGTCCT

Mutation Spots: T to C

No. 490

Mutation Spots Location: 12643

Mutation Sequence: GAATAATGAGCTTAGTCCTGTTGCA

Mutation Spots: T to C

No. 491

Mutation Spots Location: 12659

Mutation Sequence: CCTGTTGCACTACGACAGATGTCTT

Mutation Spots: C to A

No. 492

Mutation Spots Location: 12668

Mutation Sequence: CTACGACAGATGTCTTGTGCTGCCG

Mutation Spots: T to C

No. 493

Mutation Spots Location: 12671

Mutation Sequence: CGACAGATGTCTTGTGCTGCCGGTA

Mutation Spots: T to G

No. 494

Mutation Spots Location: 12701

Mutation Sequence: CAAACTGCTTGCACTGATGACAATG

Mutation Spots: A to G

No. 495

Mutation Spots Location: 12704

Mutation Sequence: ACTGCTTGCACTGATGACAATGCGT

Mutation Spots: G to C

No. 496

Mutation Spots Location: 12826

Mutation Sequence: AACTGGTACTATCTATACAGAACTG

Mutation Spots: C to T

No. 497

Mutation Spots Location: 12843

Mutation Sequence: CAGAACTGGAACCACCTTGTAGGTT

Mutation Spots: C to T

No. 498

Mutation Spots Location: 12854

Mutation Sequence: CCACCTTGTAGGTTTGTTACAGACA

Mutation Spots: T to A

No. 499

Mutation Spots Location: 12871

Mutation Sequence: TACAGACACACCTAAAGGTCCTAAA

Mutation Spots: T to C

No. 500

Mutation Spots Location: 12888

Mutation Sequence: GTCCTAAAGTGAAGTATTTATACTT

Mutation Spots: A to G

No. 501

Mutation Spots Location: 12928

Mutation Sequence: CAACCTAAATAGAGGTATGGTACTT

Mutation Spots: A to G

No. 502

Mutation Spots Location: 12935

Mutation Sequence: AATAGAGGTATGGTACTTGGTAGTT

Mutation Spots: G to A

No. 503

Mutation Spots Location: 12949

Mutation Sequence: ACTTGGTAGTTTAGCTGCCACAGTA

Mutation Spots: A to G

No. 504

Mutation Spots Location: 12951

Mutation Sequence: TTGGTAGTTTAGCTGCCACAGTACG

Mutation Spots: C to T

No. 505

Mutation Spots Location: 13008

Mutation Sequence: CCAATTCAACTGTATTATCTTTCTG

Mutation Spots: T to C

No. 506

Mutation Spots Location: 13045

Mutation Sequence: AGATGCTGCTAAAGCTTACAAAGAT

Mutation Spots: A to G

No. 507

Mutation Spots Location: 13048

Mutation Sequence: TGCTGCTAAAGCTTACAAAGATTAT

Mutation Spots: T to C

No. 508

Mutation Spots Location: 13114

Mutation Sequence: GTTGTGTACACACACTGGTACTGGT

Mutation Spots: C to T

No. 509

Mutation Spots Location: 13124

Mutation Sequence: CACACTGGTACTGGTCAGGCAATAA

Mutation Spots: G to A

No. 510

Mutation Spots Location: 13125

Mutation Sequence: ACACTGGTACTGGTCAGGCAATAAC

Mutation Spots: G to T

No. 511

Mutation Spots Location: 13132

Mutation Sequence: TACTGGTCAGGCAATAACAGTTACA

Mutation Spots: A to G

No. 512

Mutation Spots Location: 13146

Mutation Sequence: TAACAGTTACACCGGAAGCCAATAT

Mutation Spots: C to T

No. 513

Mutation Spots Location: 13154

Mutation Sequence: ACACCGGAAGCCAATATGGATCAAG

Mutation Spots: A to T

No. 514

Mutation Spots Location: 13155

Mutation Sequence: CACCGGAAGCCAATATGGATCAAGA

Mutation Spots: A to C

No. 515

Mutation Spots Location: 13169

Mutation Sequence: ATGGATCAAGAATCCTTTGGTGGTG

Mutation Spots: T to C

No. 516

Mutation Spots Location: 13183

Mutation Sequence: CTTTGGTGGTGCATCGTGTTGTCTG

Mutation Spots: A to G

No. 517

Mutation Spots Location: 13229

Mutation Sequence: CATCCAAATCCTAAAGGATTTTGTG

Mutation Spots: A to G

No. 518

Mutation Spots Location: 13284

Mutation Sequence: CAACTTGTGCTAATGACCCTGTGGG

Mutation Spots: A to G

No. 519

Mutation Spots Location: 13317

Mutation Sequence: TTAAAAACACAGTCTGTACCGTCTG

Mutation Spots: T to C

No. 520

Mutation Spots Location: 13347

Mutation Sequence: TGTGGAAAGGTTATGGCTGTAGTTG

Mutation Spots: A to G

No. 521

Mutation Spots Location: 13350

Mutation Sequence: GGAAAGGTTATGGCTGTAGTTGTGA

Mutation Spots: G to A

No. 522

Mutation Spots Location: 13352

Mutation Sequence: AAAGGTTATGGCTGTAGTTGTGATC

Mutation Spots: T to A

No. 523

Mutation Spots Location: 13398

Mutation Sequence: AGTCAGCTGATGCACAATCGTTTTT

Mutation Spots: C to T

No. 524

Mutation Spots Location: 13414

Mutation Sequence: ATCGTTTTTAAACGGGTTTGCGGTG

Mutation Spots: C to A

No. 525

Mutation Spots Location: 13427

Mutation Sequence: GGGTTTGCGGTGTAAGTGCAGCCCG

Mutation Spots: T to G

No. 526

Mutation Spots Location: 13518

Mutation Sequence: TAAAGTAGCTGGTTTTGCTAAATTC

Mutation Spots: T to A

No. 527

Mutation Spots Location: 13533

Mutation Sequence: TGCTAAATTCCTAAAAACTAATTGT

Mutation Spots: A to G

No. 528

Mutation Spots Location: 13656

Mutation Sequence: TTATAATTTACTTAAGGATTGTCCA

Mutation Spots: T to C

No. 529

Mutation Spots Location: 13668

Mutation Sequence: TAAGGATTGTCCAGCTGTTGCTAAA

Mutation Spots: A to C

No. 530

Mutation Spots Location: 13670

Mutation Sequence: AGGATTGTCCAGCTGTTGCTAAACA

Mutation Spots: C to T

No. 531

Mutation Spots Location: 13696

Mutation Sequence: GACTTCTTTAAGTTTAGAATAGACG

Mutation Spots: T to C

No. 532

Mutation Spots Location: 13745

Mutation Sequence: GTCAACGTCTTACTAAATACACAAT

Mutation Spots: C to T

No. 533

Mutation Spots Location: 13753

Mutation Sequence: CTTACTAAATACACAATGGCAGACC

Mutation Spots: A to G

No. 534

Mutation Spots Location: 13849

Mutation Sequence: TGTTGTGATGATGATTATTTCAATA

Mutation Spots: G to A

No. 535

Mutation Spots Location: 13889

Mutation Sequence: ATTTTGTAGAAAACCCAGATATATT

Mutation Spots: A to G

No. 536

Mutation Spots Location: 13906

Mutation Sequence: GATATATTACGCGTATACGCCAACT

Mutation Spots: G to A

No. 537

Mutation Spots Location: 13944

Mutation Sequence: ACGCCAAGCTTTGTTAAAAACAGTA

Mutation Spots: G to A

No. 538

Mutation Spots Location: 13975

Mutation Sequence: TGTGATGCCATGCGAAATGCTGGTA

Mutation Spots: C to T

No. 539

Mutation Spots Location: 14061

Mutation Sequence: TTTCATACAAACCACGCCAGGTAGT

Mutation Spots: C to T

No. 540

Mutation Spots Location: 14076

Mutation Sequence: GCCAGGTAGTGGAGTTCCTGTTGTA

Mutation Spots: A to G

No. 541

Mutation Spots Location: 14095

Mutation Sequence: GTTGTAGATTCTTATTATTCATTGT

Mutation Spots: T to C

No. 542

Mutation Spots Location: 14097

Mutation Sequence: TGTAGATTCTTATTATTCATTGTTA

Mutation Spots: T to C

No. 543

Mutation Spots Location: 14124

Mutation Sequence: GCCTATATTAACCTTGACCAGGGCT

Mutation Spots: C to T

No. 544

Mutation Spots Location: 14125

Mutation Sequence: CCTATATTAACCTTGACCAGGGCTT

Mutation Spots: T to C

No. 545

Mutation Spots Location: 14197

Mutation Sequence: AAGTGGGATTTGTTAAAATATGACT

Mutation Spots: T to A

No. 546

Mutation Spots Location: 14200

Mutation Sequence: TGGGATTTGTTAAAATATGACTTCA

Mutation Spots: A to G

No. 547

Mutation Spots Location: 14203

Mutation Sequence: GATTTGTTAAAATATGACTTCACGG

Mutation Spots: T to C

No. 548

Mutation Spots Location: 14373

Mutation Sequence: TTTTGGACCACTAGTGAGAAAAATA

Mutation Spots: A to G

No. 549

Mutation Spots Location: 14384

Mutation Sequence: TAGTGAGAAAAATATTTGTTGATGG

Mutation Spots: T to C

No. 550

Mutation Spots Location: 14433

Mutation Sequence: ATACCACTTCAGAGAGCTAGGTGTT

Mutation Spots: A to G

No. 551

Mutation Spots Location: 14465

Mutation Sequence: ATCAGGATGTAAACTTACATAGCTC

Mutation Spots: A to G

No. 552

Mutation Spots Location: 14476

Mutation Sequence: AACTTACATAGCTCTAGACTTAGTT

Mutation Spots: T to C

No. 553

Mutation Spots Location: 14522

Mutation Sequence: CTGCTGACCCTGCTATGCACGCTGC

Mutation Spots: C to T

No. 554

Mutation Spots Location: 14541

Mutation Sequence: CGCTGCTTCTGGTAATCTATTACTA

Mutation Spots: T to C

No. 555

Mutation Spots Location: 14561

Mutation Sequence: TACTAGATAAACGCACTACGTGCTT

Mutation Spots: G to A

No. 556

Mutation Spots Location: 14598

Mutation Sequence: ACTTACTAACAATGTTGCTTTTCAA

Mutation Spots: T to C

No. 557

Mutation Spots Location: 14619

Mutation Sequence: TCAAACTGTCAAACCCGGTAATTTT

Mutation Spots: A to G

No. 558

Mutation Spots Location: 14661

Mutation Sequence: CTTTGCTGTGTCTAAGGGTTTCTTT

Mutation Spots: T to C

No. 559

Mutation Spots Location: 14678

Mutation Sequence: GTTTCTTTAAGGAAGGAAGTTCTGT

Mutation Spots: A to G

No. 560

Mutation Spots Location: 14711

Mutation Sequence: AACACTTCTTCTTTGCTCAGGATGG

Mutation Spots: T to C

No. 561

Mutation Spots Location: 14712

Mutation Sequence: ACACTTCTTCTTTGCTCAGGATGGT

Mutation Spots: T to C

No. 562

Mutation Spots Location: 14750

Mutation Sequence: GCGATTATGACTACTATCGTTATAA

Mutation Spots: A to G

No. 563

Mutation Spots Location: 14773

Mutation Sequence: AATCTACCAACAATGTGTGATATCA

Mutation Spots: A to G

No. 564

Mutation Spots Location: 14787

Mutation Sequence: GTGTGATATCAGACAACTACTATTT

Mutation Spots: A to G

No. 565

Mutation Spots Location: 14796

Mutation Sequence: CAGACAACTACTATTTGTAGTTGAA

Mutation Spots: A to G

No. 566

Mutation Spots Location: 14871

Mutation Sequence: CCAAGTCATCGTCAACAACCTAGAC

Mutation Spots: C to A

No. 567

Mutation Spots Location: 14888

Mutation Sequence: ACCTAGACAAATCAGCTGGTTTTCC

Mutation Spots: C to T

No. 568

Mutation Spots Location: 14907

Mutation Sequence: TTTTCCATTTAATAAATGGGGTAAG

Mutation Spots: T to C

No. 569

Mutation Spots Location: 14917

Mutation Sequence: AATAAATGGGGTAAGGCTAGACTTT

Mutation Spots: A to G

No. 570

Mutation Spots Location: 14948

Mutation Sequence: ATTCAATGAGTTATGAGGATCAAGA

Mutation Spots: A to G

No. 571

Mutation Spots Location: 14973

Mutation Sequence: TGCACTTTTCGCATATACAAAACGT

Mutation Spots: A to G

No. 572

Mutation Spots Location: 14992

Mutation Sequence: AAACGTAATGTCATCCCTACTATAA

Mutation Spots: A to G

No. 573

Mutation Spots Location: 15023

Mutation Sequence: TGAATCTTAAGTATGCCATTAGTGC

Mutation Spots: A to T

No. 574

Mutation Spots Location: 15075

Mutation Sequence: TGTCTCTATCTGTAGTACTATGACC

Mutation Spots: T to C

No. 575

Mutation Spots Location: 15104

Mutation Sequence: GACAGTTTCATCAAAAATTATTGAA

Mutation Spots: A to C

No. 576

Mutation Spots Location: 15117

Mutation Sequence: AAAATTATTGAAATCAATAGCCGCC

Mutation Spots: A to G

No. 577

Mutation Spots Location: 15130

Mutation Sequence: TCAATAGCCGCCACTAGAGGAGCTA

Mutation Spots: A to G

No. 578

Mutation Spots Location: 15141

Mutation Sequence: CACTAGAGGAGCTACTGTAGTAATT

Mutation Spots: T to C

No. 579

Mutation Spots Location: 15178

Mutation Sequence: TTCTATGGTGGTTGGCACAACATGT

Mutation Spots: T to G

No. 580

Mutation Spots Location: 15229

Mutation Sequence: AACCCTCACCTTATGGGTTGGGATT

Mutation Spots: A to G

No. 581

Mutation Spots Location: 15262

Mutation Sequence: TGTGATAGAGCCATGCCTAACATGC

Mutation Spots: A to G

No. 582

Mutation Spots Location: 15264

Mutation Sequence: TGATAGAGCCATGCCTAACATGCTT

Mutation Spots: G to A

No. 583

Mutation Spots Location: 15294

Mutation Sequence: TATGGCCTCACTTGTTCTTGCTCGC

Mutation Spots: T to A

No. 584

Mutation Spots Location: 15299

Mutation Sequence: CCTCACTTGTTCTTGCTCGCAAACA

Mutation Spots: T to C

No. 585

Mutation Spots Location: 15344

Mutation Sequence: CACACCGTTTCTATAGATTAGCTAA

Mutation Spots: A to C

No. 586

Mutation Spots Location: 15366

Mutation Sequence: TAATGAGTGTGCTCAAGTATTGAGT

Mutation Spots: T to G

No. 587

Mutation Spots Location: 15384

Mutation Sequence: ATTGAGTGAAATGGTCATGTGTGGC

Mutation Spots: G to A

No. 588

Mutation Spots Location: 15390

Mutation Sequence: TGAAATGGTCATGTGTGGCGGTTCA

Mutation Spots: G to A

No. 589

Mutation Spots Location: 15398

Mutation Sequence: TCATGTGTGGCGGTTCACTATATGT

Mutation Spots: G to C

No. 590

Mutation Spots Location: 15402

Mutation Sequence: GTGTGGCGGTTCACTATATGTTAAA

Mutation Spots: A to G

No. 591

Mutation Spots Location: 15419

Mutation Sequence: ATGTTAAACCAGGTGGAACCTCATC

Mutation Spots: G to A

No. 592

Mutation Spots Location: 15433

Mutation Sequence: GGAACCTCATCAGGAGATGCCACAA

Mutation Spots: G to A

No. 593

Mutation Spots Location: 15456

Mutation Sequence: AACTGCTTATGCTAATAGTGTTTTT

Mutation Spots: T to C

No. 594

Mutation Spots Location: 15480

Mutation Sequence: TAACATTTGTCAAGCTGTCACGGCC

Mutation Spots: A to G

No. 595

Mutation Spots Location: 15537

Mutation Sequence: CAAAATTGCCGATAAGTATGTCCGC

Mutation Spots: T to C

No. 596

Mutation Spots Location: 15624

Mutation Sequence: GAATGAGTTTTACGCATATTTGCGT

Mutation Spots: C to T

No. 597

Mutation Spots Location: 15649

Mutation Sequence: AAACATTTCTCAATGATGATACTCT

Mutation Spots: A to G

No. 598

Mutation Spots Location: 15674

Mutation Sequence: CTGACGATGCTGTTGTGTGTTTCAA

Mutation Spots: T to C

No. 599

Mutation Spots Location: 15710

Mutation Sequence: CATCTCAAGGTCTAGTGGCTAGCAT

Mutation Spots: T to C

No. 600

Mutation Spots Location: 15726

Mutation Sequence: GGCTAGCATAAAGAACTTTAAGTCA

Mutation Spots: G to A

No. 601

Mutation Spots Location: 15787

Mutation Sequence: GCAAAATGTTGGACTGAGACTGACC

Mutation Spots: A to G

No. 602

Mutation Spots Location: 15804

Mutation Sequence: GACTGACCTTACTAAAGGACCTCAT

Mutation Spots: T to C

No. 603

Mutation Spots Location: 15854

Mutation Sequence: TAGTTAAACAGGGTGATGATTATGT

Mutation Spots: G to A

No. 604

Mutation Spots Location: 15965

Mutation Sequence: TTGAACGGTTCGTGTCTTTAGCTAT

Mutation Spots: T to C

No. 605

Mutation Spots Location: 16036

Mutation Sequence: GTCTTTCATTTGTACTTACAATACA

Mutation Spots: T to C

No. 606

Mutation Spots Location: 16057

Mutation Sequence: TACATAAGAAAGCTACATGATGAGT

Mutation Spots: C to T

No. 607

Mutation Spots Location: 16059

Mutation Sequence: CATAAGAAAGCTACATGATGAGTTA

Mutation Spots: A to C

No. 608

Mutation Spots Location: 16111

Mutation Sequence: GTTATGCTTACTAATGATAACACTT

Mutation Spots: A to G

No. 609

Mutation Spots Location: 16155

Mutation Sequence: GTTTTATGAGGCTATGTACACACCG

Mutation Spots: T to C

No. 610

Mutation Spots Location: 16156

Mutation Sequence: TTTTATGAGGCTATGTACACACCGC

Mutation Spots: A to G

No. 611

Mutation Spots Location: 16184

Mutation Sequence: CAGTCTTACAGGCTGTTGGGGCTTG

Mutation Spots: C to G

No. 612

Mutation Spots Location: 16211

Mutation Sequence: TTCTTTGCAATTCACAGACTTCATT

Mutation Spots: C to A

No. 613

Mutation Spots Location: 16239

Mutation Sequence: ATGTGGTGCTTGCATACGTAGACCA

Mutation Spots: C to T

No. 614

Mutation Spots Location: 16344

Mutation Sequence: CAATGCTCCAGGTTGTGATGTCACA

Mutation Spots: T to G

No. 615

Mutation Spots Location: 16381

Mutation Sequence: CTTTACTTAGGAGGTATGAGCTATT

Mutation Spots: G to A

No. 616

Mutation Spots Location: 16415

Mutation Sequence: CACATAAACCACCCATTAGTTTTCC

Mutation Spots: C to G

No. 617

Mutation Spots Location: 16484

Mutation Sequence: GTGTTGGTAGCGATAATGTTACTGA

Mutation Spots: A to G

No. 618

Mutation Spots Location: 16516

Mutation Sequence: GCAATTGCAACATGTGACTGGACAA

Mutation Spots: T to C

No. 619

Mutation Spots Location: 16615

Mutation Sequence: ACTGAGGAGACATTTAAACTGTCTT

Mutation Spots: T to C

No. 620

Mutation Spots Location: 16618

Mutation Sequence: GAGGAGACATTTAAACTGTCTTATG

Mutation Spots: A to G

No. 621

Mutation Spots Location: 16690

Mutation Sequence: TCATGGGAAGTTGGTAAACCTAGAC

Mutation Spots: G to A

No. 622

Mutation Spots Location: 16707

Mutation Sequence: ACCTAGACCACCACTTAACCGAAAT

Mutation Spots: A to G

No. 623

Mutation Spots Location: 16734

Mutation Sequence: TGTCTTTACTGGTTATCGTGTAACT

Mutation Spots: T to C

No. 624

Mutation Spots Location: 16763

Mutation Sequence: ACAGTAAAGTACAAATAGGAGAGTA

Mutation Spots: A to C

No. 625

Mutation Spots Location: 16774

Mutation Sequence: CAAATAGGAGAGTACACCTTTGAAA

Mutation Spots: T to C

No. 626

Mutation Spots Location: 16798

Mutation Sequence: AAAGGTGACTATGGTGATGCTGTTG

Mutation Spots: G to T

No. 627

Mutation Spots Location: 16800

Mutation Sequence: AGGTGACTATGGTGATGCTGTTGTT

Mutation Spots: T to A

No. 628

Mutation Spots Location: 16813

Mutation Sequence: GATGCTGTTGTTTACCGAGGTACAA

Mutation Spots: T to C

No. 629

Mutation Spots Location: 16834

Mutation Sequence: ACAACAACTTACAAATTAAATGTTG

Mutation Spots: A to T

No. 630

Mutation Spots Location: 16844

Mutation Sequence: ACAAATTAAATGTTGGTGATTATTT

Mutation Spots: T to C

No. 631

Mutation Spots Location: 16871

Mutation Sequence: TGCTGACATCACATACAGTAATGCC

Mutation Spots: A to G

No. 632

Mutation Spots Location: 16878

Mutation Sequence: ATCACATACAGTAATGCCATTAAGT

Mutation Spots: A to C

No. 633

Mutation Spots Location: 16884

Mutation Sequence: TACAGTAATGCCATTAAGTGCACCT

Mutation Spots: A to G

No. 634

Mutation Spots Location: 16887

Mutation Sequence: AGTAATGCCATTAAGTGCACCTACA

Mutation Spots: A to C

No. 635

Mutation Spots Location: 16890

Mutation Sequence: AATGCCATTAAGTGCACCTACACTA

Mutation Spots: T to C

No. 636

Mutation Spots Location: 16893

Mutation Sequence: GCCATTAAGTGCACCTACACTAGTG

Mutation Spots: A to G

No. 637

Mutation Spots Location: 16955

Mutation Sequence: CAACACTCAATATCTCAGATGAGTT

Mutation Spots: T to C

No. 638

Mutation Spots Location: 16969

Mutation Sequence: TCAGATGAGTTTTCTAGCAATGTTG

Mutation Spots: T to C

No. 639

Mutation Spots Location: 17016

Mutation Sequence: GCAAAAGTATTCTACACTCCAGGGA

Mutation Spots: T to C

No. 640

Mutation Spots Location: 17023

Mutation Sequence: TATTCTACACTCCAGGGACCACCTG

Mutation Spots: C to T

No. 641

Mutation Spots Location: 17041

Mutation Sequence: CCACCTGGTACTGGTAAGAGTCATT

Mutation Spots: G to A

No. 642

Mutation Spots Location: 17042

Mutation Sequence: CACCTGGTACTGGTAAGAGTCATTT

Mutation Spots: G to A

No. 643

Mutation Spots Location: 17072

Mutation Sequence: TTGGCCTAGCTCTCTACTACCCTTC

Mutation Spots: T to C

No. 644

Mutation Spots Location: 17084

Mutation Sequence: TCTACTACCCTTCTGCTCGCATAGT

Mutation Spots: C to T

No. 645

Mutation Spots Location: 17091

Mutation Sequence: CCCTTCTGCTCGCATAGTGTATACA

Mutation Spots: C to T

No. 646

Mutation Spots Location: 17150

Mutation Sequence: AGAAGGCATTAAAATATTTGCCTAT

Mutation Spots: A to G

No. 647

Mutation Spots Location: 17210

Mutation Sequence: GTGTAGAGTGTTTTGATAAATTCAA

Mutation Spots: T to C

No. 648

Mutation Spots Location: 17219

Mutation Sequence: GTTTTGATAAATTCAAAGTGAATTC

Mutation Spots: T to C

No. 649

Mutation Spots Location: 17232

Mutation Sequence: CAAAGTGAATTCAACATTAGAACAG

Mutation Spots: A to G

No. 650

Mutation Spots Location: 17273

Mutation Sequence: TAAATGCATTGCCTGAGACGACAGC

Mutation Spots: C to T

No. 651

Mutation Spots Location: 17316

Mutation Sequence: TGAAATTTCAATGGCCACAAATTAT

Mutation Spots: G to A

No. 652

Mutation Spots Location: 17336

Mutation Sequence: ATTATGATTTGAGTGTTGTCAATGC

Mutation Spots: G to A

No. 653

Mutation Spots Location: 17337

Mutation Sequence: TTATGATTTGAGTGTTGTCAATGCC

Mutation Spots: T to C

No. 654

Mutation Spots Location: 17345

Mutation Sequence: TGAGTGTTGTCAATGCCAGATTACG

Mutation Spots: A to G

No. 655

Mutation Spots Location: 17354

Mutation Sequence: TCAATGCCAGATTACGTGCTAAGCA

Mutation Spots: T to A

No. 656

Mutation Spots Location: 17371

Mutation Sequence: GCTAAGCACTATGTGTACATTGGCG

Mutation Spots: G to A

No. 657

Mutation Spots Location: 17409

Mutation Sequence: ACCTGCACCACGCACATTGCTAACT

Mutation Spots: C to T

No. 658

Mutation Spots Location: 17419

Mutation Sequence: CGCACATTGCTAACTAAGGGCACAC

Mutation Spots: A to C

No. 659

Mutation Spots Location: 17421

Mutation Sequence: CACATTGCTAACTAAGGGCACACTA

Mutation Spots: T to C

No. 660

Mutation Spots Location: 17427

Mutation Sequence: GCTAACTAAGGGCACACTAGAACCA

Mutation Spots: C to T

No. 661

Mutation Spots Location: 17475

Mutation Sequence: ACTTATGAAAACTATAGGTCCAGAC

Mutation Spots: T to C

No. 662

Mutation Spots Location: 17520

Mutation Sequence: GCGTTGTCCTGCTGAAATTGTTGAC

Mutation Spots: T to C

No. 663

Mutation Spots Location: 17571

Mutation Sequence: TAAGCTTAAAGCACATAAAGACAAA

Mutation Spots: A to G

No. 664

Mutation Spots Location: 17585

Mutation Sequence: ATAAAGACAAATCAGCTCAATGCTT

Mutation Spots: C to T

No. 665

Mutation Spots Location: 17587

Mutation Sequence: AAAGACAAATCAGCTCAATGCTTTA

Mutation Spots: G to A

No. 666

Mutation Spots Location: 17622

Mutation Sequence: TAAGGGTGTTATCACTCATGATGTT

Mutation Spots: C to T

No. 667

Mutation Spots Location: 17639

Mutation Sequence: ATGATGTTTCATCTGCAATTAACAG

Mutation Spots: C to T

No. 668

Mutation Spots Location: 17647

Mutation Sequence: TCATCTGCAATTAACAGGCCACAAA

Mutation Spots: A to G

No. 669

Mutation Spots Location: 17652

Mutation Sequence: TGCAATTAACAGGCCACAAATAGGC

Mutation Spots: G to A

No. 670

Mutation Spots Location: 17661

Mutation Sequence: CAGGCCACAAATAGGCGTGGTAAGA

Mutation Spots: A to C

No. 671

Mutation Spots Location: 17671

Mutation Sequence: ATAGGCGTGGTAAGAGAATTCCTTA

Mutation Spots: A to G

No. 672

Mutation Spots Location: 17689

Mutation Sequence: TTCCTTACACGTAACCCTGCTTGGA

Mutation Spots: A to G

No. 673

Mutation Spots Location: 17700

Mutation Sequence: TAACCCTGCTTGGAGAAAAGCTGTC

Mutation Spots: G to A

No. 674

Mutation Spots Location: 17705

Mutation Sequence: CTGCTTGGAGAAAAGCTGTCTTTAT

Mutation Spots: A to G

No. 675

Mutation Spots Location: 17851

Mutation Sequence: GCTCACTCTTGTAATGTAAACAGAT

Mutation Spots: A to G

No. 676

Mutation Spots Location: 17980

Mutation Sequence: AATGTGGCAACTTTACAAGCTGAAA

Mutation Spots: T to C

No. 677

Mutation Spots Location: 17994

Mutation Sequence: ACAAGCTGAAAATGTAACAGGACTC

Mutation Spots: T to A

No. 678

Mutation Spots Location: 18010

Mutation Sequence: ACAGGACTCTTTAAAGATTGTAGTA

Mutation Spots: A to G

No. 679

Mutation Spots Location: 18011

Mutation Sequence: CAGGACTCTTTAAAGATTGTAGTAA

Mutation Spots: A to G

No. 680

Mutation Spots Location: 18018

Mutation Sequence: CTTTAAAGATTGTAGTAAGGTAATC

Mutation Spots: T to C

No. 681

Mutation Spots Location: 18071

Mutation Sequence: CACACCTCAGTGTTGACACTAAATT

Mutation Spots: T to C

No. 682

Mutation Spots Location: 18086

Mutation Sequence: ACACTAAATTCAAAACTGAAGGTTT

Mutation Spots: A to G

No. 683

Mutation Spots Location: 18130

Mutation Sequence: ATACCTAAGGACATGACCTATAGAA

Mutation Spots: A to T

No. 684

Mutation Spots Location: 18144

Mutation Sequence: GACCTATAGAAGACTCATCTCTATG

Mutation Spots: A to G

No. 685

Mutation Spots Location: 18210

Mutation Sequence: CATGTTTATCACCCGCGAAGAAGCT

Mutation Spots: C to T

No. 686

Mutation Spots Location: 18224

Mutation Sequence: GCGAAGAAGCTATAAGACATGTACG

Mutation Spots: T to A

No. 687

Mutation Spots Location: 18227

Mutation Sequence: AAGAAGCTATAAGACATGTACGTGC

Mutation Spots: G to A

No. 688

Mutation Spots Location: 18279

Mutation Sequence: TCATGCTACTAGAGAAGCTGTTGGT

Mutation Spots: A to G

No. 689

Mutation Spots Location: 18285

Mutation Sequence: TACTAGAGAAGCTGTTGGTACCAAT

Mutation Spots: T to C

No. 690

Mutation Spots Location: 18291

Mutation Sequence: AGAAGCTGTTGGTACCAATTTACCT

Mutation Spots: T to A

No. 691

Mutation Spots Location: 18299

Mutation Sequence: TTGGTACCAATTTACCTTTACAGCT

Mutation Spots: T to C

No. 692

Mutation Spots Location: 18387

Mutation Sequence: TACAGATTTTTCCAGAGTTAGTGCT

Mutation Spots: C to A

No. 693

Mutation Spots Location: 18430

Mutation Sequence: CAATTTAAACACCTCATACCACTTA

Mutation Spots: C to A

No. 694

Mutation Spots Location: 18451

Mutation Sequence: CTTATGTACAAAGGACTTCCTTGGA

Mutation Spots: G to A

No. 695

Mutation Spots Location: 18463

Mutation Sequence: GGACTTCCTTGGAATGTAGTGCGTA

Mutation Spots: A to G

No. 696

Mutation Spots Location: 18495

Mutation Sequence: TGTACAAATGTTAAGTGACACACTT

Mutation Spots: A to G

No. 697

Mutation Spots Location: 18509

Mutation Sequence: GTGACACACTTAAAAATCTCTCTGA

Mutation Spots: A to G

No. 698

Mutation Spots Location: 18536

Mutation Sequence: GAGTCGTATTTGTCTTATGGGCACA

Mutation Spots: T to C

No. 699

Mutation Spots Location: 18541

Mutation Sequence: GTATTTGTCTTATGGGCACATGGCT

Mutation Spots: T to C

No. 700

Mutation Spots Location: 18545

Mutation Sequence: TTGTCTTATGGGCACATGGCTTTGA

Mutation Spots: C to G

No. 701

Mutation Spots Location: 18588

Mutation Sequence: TTTTGTGAAAATAGGACCTGAGCGC

Mutation Spots: A to C

No. 702

Mutation Spots Location: 18589

Mutation Sequence: TTTGTGAAAATAGGACCTGAGCGCA

Mutation Spots: G to A

No. 703

Mutation Spots Location: 18597

Mutation Sequence: AATAGGACCTGAGCGCACCTGTTGT

Mutation Spots: G to A

No. 704

Mutation Spots Location: 18613

Mutation Sequence: ACCTGTTGTCTATGTGATAGACGTG

Mutation Spots: T to C

No. 705

Mutation Spots Location: 18617

Mutation Sequence: GTTGTCTATGTGATAGACGTGCCAC

Mutation Spots: A to G

No. 706

Mutation Spots Location: 18627

Mutation Sequence: TGATAGACGTGCCACATGCTTTTCC

Mutation Spots: C to T

No. 707

Mutation Spots Location: 18646

Mutation Sequence: TTTTCCACTGCTTCAGACACTTATG

Mutation Spots: T to A

No. 708

Mutation Spots Location: 18659

Mutation Sequence: CAGACACTTATGCCTGTTGGCATCA

Mutation Spots: C to T

No. 709

Mutation Spots Location: 18700

Mutation Sequence: TACGTCTATAATCCGTTTATGATTG

Mutation Spots: C to T

No. 710

Mutation Spots Location: 18734

Mutation Sequence: AATGGGGTTTTACAGGTAACCTACA

Mutation Spots: C to T

No. 711

Mutation Spots Location: 18739

Mutation Sequence: GGTTTTACAGGTAACCTACAAAGCA

Mutation Spots: A to G

No. 712

Mutation Spots Location: 18742

Mutation Sequence: TTTACAGGTAACCTACAAAGCAACC

Mutation Spots: C to T

No. 713

Mutation Spots Location: 18750

Mutation Sequence: TAACCTACAAAGCAACCATGATCTG

Mutation Spots: C to T

No. 714

Mutation Spots Location: 18763

Mutation Sequence: AACCATGATCTGTATTGTCAAGTCC

Mutation Spots: T to C

No. 715

Mutation Spots Location: 18764

Mutation Sequence: ACCATGATCTGTATTGTCAAGTCCA

Mutation Spots: A to C

No. 716

Mutation Spots Location: 18813

Mutation Sequence: TGATGCAATCATGACTAGGTGTCTA

Mutation Spots: G to A

No. 717

Mutation Spots Location: 18846

Mutation Sequence: CGAGTGCTTTGTTAAGCGTGTTGAC

Mutation Spots: T to C

No. 718

Mutation Spots Location: 18861

Mutation Sequence: GCGTGTTGACTGGACTATTGAATAT

Mutation Spots: G to A

No. 719

Mutation Spots Location: 18864

Mutation Sequence: TGTTGACTGGACTATTGAATATCCT

Mutation Spots: T to C

No. 720

Mutation Spots Location: 18887

Mutation Sequence: CTATAATTGGTGATGAACTGAAGAT

Mutation Spots: A to G

No. 721

Mutation Spots Location: 18891

Mutation Sequence: AATTGGTGATGAACTGAAGATTAAT

Mutation Spots: A to G

No. 722

Mutation Spots Location: 18896

Mutation Sequence: GTGATGAACTGAAGATTAATGCGGC

Mutation Spots: A to T

No. 723

Mutation Spots Location: 18916

Mutation Sequence: GCGGCTTGTAGAAAGGTTCAACACA

Mutation Spots: A to G

No. 724

Mutation Spots Location: 18919

Mutation Sequence: GCTTGTAGAAAGGTTCAACACATGG

Mutation Spots: G to A

No. 725

Mutation Spots Location: 18924

Mutation Sequence: TAGAAAGGTTCAACACATGGTTGTT

Mutation Spots: A to G

No. 726

Mutation Spots Location: 18944

Mutation Sequence: TTGTTAAAGCTGCATTATTAGCAGA

Mutation Spots: C to T

No. 727

Mutation Spots Location: 18965

Mutation Sequence: CAGACAAATTCCCAGTTCTTCACGA

Mutation Spots: C to T

No. 728

Mutation Spots Location: 18976

Mutation Sequence: CCAGTTCTTCACGACATTGGTAACC

Mutation Spots: G to A

No. 729

Mutation Spots Location: 18983

Mutation Sequence: TTCACGACATTGGTAACCCTAAAGC

Mutation Spots: G to C

No. 730

Mutation Spots Location: 18990

Mutation Sequence: CATTGGTAACCCTAAAGCTATTAAG

Mutation Spots: T to C

No. 731

Mutation Spots Location: 18996

Mutation Sequence: TAACCCTAAAGCTATTAAGTGTGTA

Mutation Spots: T to C

No. 732

Mutation Spots Location: 19019

Mutation Sequence: TACCTCAAGCTGATGTAGAATGGAA

Mutation Spots: A to G

No. 733

Mutation Spots Location: 19044

Mutation Sequence: GTTCTATGATGCACAGCCTTGTAGT

Mutation Spots: A to C

No. 734

Mutation Spots Location: 19049

Mutation Sequence: ATGATGCACAGCCTTGTAGTGACAA

Mutation Spots: C to T

No. 735

Mutation Spots Location: 19052

Mutation Sequence: ATGCACAGCCTTGTAGTGACAAAGC

Mutation Spots: G to A

No. 736

Mutation Spots Location: 19130

Mutation Sequence: CAGATGGTGTATGCCTATTTTGGAA

Mutation Spots: G to A

No. 737

Mutation Spots Location: 19168

Mutation Sequence: AGATATCCTGCTAATTCCATTGTTT

Mutation Spots: A to G

No. 738

Mutation Spots Location: 19225

Mutation Sequence: AACTTGCCTGGTTGTGATGGTGGCA

Mutation Spots: T to G

No. 739

Mutation Spots Location: 19244

Mutation Sequence: GTGGCAGTTTGTATGTAAATAAACA

Mutation Spots: A to G

No. 740

Mutation Spots Location: 19310

Mutation Sequence: ATTTAAAACAATTACCATTTTTCTA

Mutation Spots: T to C

No. 741

Mutation Spots Location: 19362

Mutation Sequence: TGGAAAACAAGTAGTGTCAGATATA

Mutation Spots: A to G

No. 742

Mutation Spots Location: 19390

Mutation Sequence: TATGTACCACTAAAGTCTGCTACGT

Mutation Spots: A to G

No. 743

Mutation Spots Location: 19404

Mutation Sequence: GTCTGCTACGTGTATAACACGTTGC

Mutation Spots: T to C

No. 744

Mutation Spots Location: 19413

Mutation Sequence: GTGTATAACACGTTGCAATTTAGGT

Mutation Spots: T to C

No. 745

Mutation Spots Location: 19420

Mutation Sequence: ACACGTTGCAATTTAGGTGGTGCTG

Mutation Spots: T to C

No. 746

Mutation Spots Location: 19421

Mutation Sequence: CACGTTGCAATTTAGGTGGTGCTGT

Mutation Spots: T to C

No. 747

Mutation Spots Location: 19428

Mutation Sequence: CAATTTAGGTGGTGCTGTCTGTAGA

Mutation Spots: T to G

No. 748

Mutation Spots Location: 19465

Mutation Sequence: GAGTACAGATTGTATCTCGATGCTT

Mutation Spots: T to C

No. 749

Mutation Spots Location: 19503

Mutation Sequence: CTCAGCTGGCTTTAGCTTGTGGGTT

Mutation Spots: T to C

No. 750

Mutation Spots Location: 19511

Mutation Sequence: GCTTTAGCTTGTGGGTTTACAAACA

Mutation Spots: G to A

No. 751

Mutation Spots Location: 19537

Mutation Sequence: TTTGATACTTATAACCTCTGGAACA

Mutation Spots: A to G

No. 752

Mutation Spots Location: 19605

Mutation Sequence: TGTAAATAAGGGACACTTTGATGGA

Mutation Spots: A to C

No. 753

Mutation Spots Location: 19648

Mutation Sequence: GTTTCTATCATTAATAACACTGTTT

Mutation Spots: A to C

No. 754

Mutation Spots Location: 19659

Mutation Sequence: TAATAACACTGTTTACACAAAAGTT

Mutation Spots: T to C

No. 755

Mutation Spots Location: 19683

Mutation Sequence: TGATGGTGTTGATGTAGAATTGTTT

Mutation Spots: T to C

No. 756

Mutation Spots Location: 19702

Mutation Sequence: TTGTTTGAAAATAAAACAACATTAC

Mutation Spots: A to C

No. 757

Mutation Spots Location: 19749

Mutation Sequence: TTGGGCTAAGCGCAACATTAAACCA

Mutation Spots: C to T

No. 758

Mutation Spots Location: 19752

Mutation Sequence: GGCTAAGCGCAACATTAAACCAGTA

Mutation Spots: C to T

No. 759

Mutation Spots Location: 19777

Mutation Sequence: CCAGAGGTGAAAATACTCAATAATT

Mutation Spots: A to T

No. 760

Mutation Spots Location: 19780

Mutation Sequence: GAGGTGAAAATACTCAATAATTTGG

Mutation Spots: C to T

No. 761

Mutation Spots Location: 19842

Mutation Sequence: CAAAAGAGATGCTCCAGCACATATA

Mutation Spots: T to C

No. 762

Mutation Spots Location: 19892

Mutation Sequence: CTGACATAGCCAAGAAACCAACTGA

Mutation Spots: A to G

No. 763

Mutation Spots Location: 19900

Mutation Sequence: GCCAAGAAACCAACTGAAACGATTT

Mutation Spots: A to C

No. 764

Mutation Spots Location: 19903

Mutation Sequence: AAGAAACCAACTGAAACGATTTGTG

Mutation Spots: G to A

No. 765

Mutation Spots Location: 19998

Mutation Sequence: TGTTCTTATTACAGAAGGTAGTGTT

Mutation Spots: A to G

No. 766

Mutation Spots Location: 20038

Mutation Sequence: TCTGTAGGTCCCAAACAAGCTAGTC

Mutation Spots: A to G

No. 767

Mutation Spots Location: 20049

Mutation Sequence: CAAACAAGCTAGTCTTAATGGAGTC

Mutation Spots: T to C

No. 768

Mutation Spots Location: 20064

Mutation Sequence: TAATGGAGTCACATTAATTGGAGAA

Mutation Spots: A to T

No. 769

Mutation Spots Location: 20073

Mutation Sequence: CACATTAATTGGAGAAGCCGTAAAA

Mutation Spots: A to T

No. 770

Mutation Spots Location: 20082

Mutation Sequence: TGGAGAAGCCGTAAAAACACAGTTC

Mutation Spots: A to G

No. 771

Mutation Spots Location: 20181

Mutation Sequence: AGAATTTAAACCCAGGAGTCAAATG

Mutation Spots: C to A

No. 772

Mutation Spots Location: 20193

Mutation Sequence: CAGGAGTCAAATGGAAATTGATTTC

Mutation Spots: G to T

No. 773

Mutation Spots Location: 20199

Mutation Sequence: TCAAATGGAAATTGATTTCTTAGAA

Mutation Spots: T to A

No. 774

Mutation Spots Location: 20214

Mutation Sequence: TTTCTTAGAATTAGCTATGGATGAA

Mutation Spots: A to G

No. 775

Mutation Spots Location: 20226

Mutation Sequence: AGCTATGGATGAATTCATTGAACGG

Mutation Spots: A to G

No. 776

Mutation Spots Location: 20246

Mutation Sequence: AACGGTATAAATTAGAAGGCTATGC

Mutation Spots: T to A

No. 777

Mutation Spots Location: 20259

Mutation Sequence: AGAAGGCTATGCCTTCGAACATATC

Mutation Spots: C to T

No. 778

Mutation Spots Location: 20260

Mutation Sequence: GAAGGCTATGCCTTCGAACATATCG

Mutation Spots: T to C

No. 779

Mutation Spots Location: 20271

Mutation Sequence: CTTCGAACATATCGTTTATGGAGAT

Mutation Spots: C to A

No. 780

Mutation Spots Location: 20335

Mutation Sequence: GGACTAGCTAAACGTTTTAAGGAAT

Mutation Spots: C to T

No. 781

Mutation Spots Location: 20349

Mutation Sequence: TTTTAAGGAATCACCTTTTGAATTA

Mutation Spots: A to T

No. 782

Mutation Spots Location: 20398

Mutation Sequence: ACAGTTAAAAACTATTTCATAACAG

Mutation Spots: T to A

No. 783

Mutation Spots Location: 20422

Mutation Sequence: GATGCGCAAACAGGTTCATCTAAGT

Mutation Spots: G to A

No. 784

Mutation Spots Location: 20424

Mutation Sequence: TGCGCAAACAGGTTCATCTAAGTGT

Mutation Spots: T to C

No. 785

Mutation Spots Location: 20429

Mutation Sequence: AAACAGGTTCATCTAAGTGTGTGTG

Mutation Spots: C to T

No. 786

Mutation Spots Location: 20492

Mutation Sequence: TAATAAAATCCCAAGATTTATCTGT

Mutation Spots: A to C

No. 787

Mutation Spots Location: 20562

Mutation Sequence: ATTTATGCTTTGGTGTAAAGATGGC

Mutation Spots: G to C

No. 788

Mutation Spots Location: 20574

Mutation Sequence: GTGTAAAGATGGCCATGTAGAAACA

Mutation Spots: C to T

No. 789

Mutation Spots Location: 20576

Mutation Sequence: GTAAAGATGGCCATGTAGAAACATT

Mutation Spots: A to T

No. 790

Mutation Spots Location: 20586

Mutation Sequence: CCATGTAGAAACATTTTACCCAAAA

Mutation Spots: A to G

No. 791

Mutation Spots Location: 20631

Mutation Sequence: GCAACCGGGTGTTGCTATGCCTAAT

Mutation Spots: T to C

No. 792

Mutation Spots Location: 20640

Mutation Sequence: TGTTGCTATGCCTAATCTTTACAAA

Mutation Spots: T to G

No. 793

Mutation Spots Location: 20664

Mutation Sequence: AATGCAAAGAATGCTATTAGAAAAG

Mutation Spots: G to A

No. 794

Mutation Spots Location: 20674

Mutation Sequence: ATGCTATTAGAAAAGTGTGACCTTC

Mutation Spots: A to C

No. 795

Mutation Spots Location: 20699

Mutation Sequence: AAAATTATGGTGATAGTGCAACATT

Mutation Spots: A to G

No. 796

Mutation Spots Location: 20727

Mutation Sequence: TAAAGGCATAATGATGAATGTCGCA

Mutation Spots: G to A

No. 797

Mutation Spots Location: 20735

Mutation Sequence: TAATGATGAATGTCGCAAAATATAC

Mutation Spots: T to C

No. 798

Mutation Spots Location: 20811

Mutation Sequence: GAGAGTTATACATTTTGGTGCTGGT

Mutation Spots: T to C

No. 799

Mutation Spots Location: 20817

Mutation Sequence: TATACATTTTGGTGCTGGTTCTGAT

Mutation Spots: T to C

No. 800

Mutation Spots Location: 20844

Mutation Sequence: AGGAGTTGCACCAGGTACAGCTGTT

Mutation Spots: A to T

No. 801

Mutation Spots Location: 20884

Mutation Sequence: CCTACGGGTACGCTGCTTGTCGATT

Mutation Spots: C to T

No. 802

Mutation Spots Location: 20887

Mutation Sequence: ACGGGTACGCTGCTTGTCGATTCAG

Mutation Spots: C to T

No. 803

Mutation Spots Location: 20927

Mutation Sequence: TCTCTGATGCAGATTCAACTTTGAT

Mutation Spots: A to G

No. 804

Mutation Spots Location: 20976

Mutation Sequence: AGCTAATAAATGGGATCTCATTATT

Mutation Spots: G to A

No. 805

Mutation Spots Location: 21004

Mutation Sequence: GATATGTACGACCCTAAGACTAAAA

Mutation Spots: C to T

No. 806

Mutation Spots Location: 21038

Mutation Sequence: AAGAAAATGACTCTAAAGAGGGTTT

Mutation Spots: C to T

No. 807

Mutation Spots Location: 21051

Mutation Sequence: TAAAGAGGGTTTTTTCACTTACATT

Mutation Spots: T to C

No. 808

Mutation Spots Location: 21055

Mutation Sequence: GAGGGTTTTTTCACTTACATTTGTG

Mutation Spots: A to G

No. 809

Mutation Spots Location: 21080

Mutation Sequence: GGTTTATACAACAAAAGCTAGCTCT

Mutation Spots: A to G

No. 810

Mutation Spots Location: 21096

Mutation Sequence: GCTAGCTCTTGGAGGTTCCGTGGCT

Mutation Spots: A to G

No. 811

Mutation Spots Location: 21100

Mutation Sequence: GCTCTTGGAGGTTCCGTGGCTATAA

Mutation Spots: T to C

No. 812

Mutation Spots Location: 21108

Mutation Sequence: AGGTTCCGTGGCTATAAAGATAACA

Mutation Spots: T to C

No. 813

Mutation Spots Location: 21109

Mutation Sequence: GGTTCCGTGGCTATAAAGATAACAG

Mutation Spots: A to G

No. 814

Mutation Spots Location: 21117

Mutation Sequence: GGCTATAAAGATAACAGAACATTCT

Mutation Spots: A to T

No. 815

Mutation Spots Location: 21142

Mutation Sequence: TGGAATGCTGATCTTTATAAGCTCA

Mutation Spots: C to T

No. 816

Mutation Spots Location: 21159

Mutation Sequence: TAAGCTCATGGGACACTTCGCATGG

Mutation Spots: A to G

No. 817

Mutation Spots Location: 21186

Mutation Sequence: GACAGCCTTTGTTACTAATGTGAAT

Mutation Spots: T to C

No. 818

Mutation Spots Location: 21200

Mutation Sequence: CTAATGTGAATGCCTCATCATCTGA

Mutation Spots: C to A

No. 819

Mutation Spots Location: 21204

Mutation Sequence: TGTGAATGCCTCATCATCTGAAGCA

Mutation Spots: A to G

No. 820

Mutation Spots Location: 21218

Mutation Sequence: CATCTGAAGCATTTTTAATTGGATG

Mutation Spots: T to C

No. 821

Mutation Spots Location: 21232

Mutation Sequence: TTAATTGGATGTAATTATCTTGGCA

Mutation Spots: A to G

No. 822

Mutation Spots Location: 21236

Mutation Sequence: TTGGATGTAATTATCTTGGCAAACC

Mutation Spots: A to T

No. 823

Mutation Spots Location: 21249

Mutation Sequence: TCTTGGCAAACCACGCGAACAAATA

Mutation Spots: A to C

No. 824

Mutation Spots Location: 21251

Mutation Sequence: TTGGCAAACCACGCGAACAAATAGA

Mutation Spots: G to C

No. 825

Mutation Spots Location: 21252

Mutation Sequence: TGGCAAACCACGCGAACAAATAGAT

Mutation Spots: C to T

No. 826

Mutation Spots Location: 21267

Mutation Sequence: ACAAATAGATGGTTATGTCATGCAT

Mutation Spots: T to C

No. 827

Mutation Spots Location: 21324

Mutation Sequence: AATTCAGTTGTCTTCCTATTCTTTA

Mutation Spots: T to C

No. 828

Mutation Spots Location: 21354

Mutation Sequence: CATGAGTAAATTTCCCCTTAAATTA

Mutation Spots: T to C

No. 829

Mutation Spots Location: 21435

Mutation Sequence: TCTTCTTAGTAAAGGTAGACTTATA

Mutation Spots: A to G

No. 830

Mutation Spots Location: 21477

Mutation Sequence: AGTTGTTATTTCTAGTGATGTTCTT

Mutation Spots: T to C

No. 831

Mutation Spots Location: 21502

Mutation Sequence: GTTAACAACTAAACGAACAATGTTT

Mutation Spots: A to G

No. 832

Mutation Spots Location: 21509

Mutation Sequence: ACTAAACGAACAATGTTTGTTTTTC

Mutation Spots: A to G

No. 833

Mutation Spots Location: 21540

Mutation Sequence: TATTGCCACTAGTCTCTAGTCAGTG

Mutation Spots: T to C

No. 834

Mutation Spots Location: 21614

Mutation Sequence: TTCACACGTGGTGTTTATTACCCTG

Mutation Spots: G to A

No. 835

Mutation Spots Location: 21659

Mutation Sequence: GTTTTACATTCAACTCAGGACTTGT

Mutation Spots: A to G

No. 836

Mutation Spots Location: 21693

Mutation Sequence: TCTTTTCCAATGTTACTTGGTTCCA

Mutation Spots: T to C

No. 837

Mutation Spots Location: 21700

Mutation Sequence: CAATGTTACTTGGTTCCATGCTATA

Mutation Spots: G to A

No. 838

Mutation Spots Location: 21721

Mutation Sequence: TATACATGTCTCTGGGACCAATGGT

Mutation Spots: T to G

No. 839

Mutation Spots Location: 21724

Mutation Sequence: ACATGTCTCTGGGACCAATGGTACT

Mutation Spots: G to A

No. 840

Mutation Spots Location: 21733

Mutation Sequence: TGGGACCAATGGTACTAAGAGGTTT

Mutation Spots: T to C

No. 841

Mutation Spots Location: 21754

Mutation Sequence: GTTTGATAACCCTGTCCTACCATTT

Mutation Spots: T to C

No. 842

Mutation Spots Location: 21802

Mutation Sequence: CACTGAGAAGTCTAACATAATAAGA

Mutation Spots: T to C

No. 843

Mutation Spots Location: 21811

Mutation Sequence: GTCTAACATAATAAGAGGCTGGATT

Mutation Spots: A to G

No. 844

Mutation Spots Location: 21845

Mutation Sequence: ACTTTAGATTCGAAGACCCAGTCCC

Mutation Spots: A to G

No. 845

Mutation Spots Location: 21859

Mutation Sequence: GACCCAGTCCCTACTTATTGTTAAT

Mutation Spots: A to G

No. 846

Mutation Spots Location: 21965

Mutation Sequence: AACAAAAGTTGGATGGAAAGTGAGT

Mutation Spots: A to C

No. 847

Mutation Spots Location: 21971

Mutation Sequence: AGTTGGATGGAAAGTGAGTTCAGAG

Mutation Spots: A to G

No. 848

Mutation Spots Location: 22001

Mutation Sequence: TCTAGTGCGAATAATTGCACTTTTG

Mutation Spots: A to G

No. 849

Mutation Spots Location: 22034

Mutation Sequence: TCTCAGCCTTTTCTTATGGACCTTG

Mutation Spots: C to T

No. 850

Mutation Spots Location: 22068

Mutation Sequence: AGGGTAATTTCAAAAATCTTAGGGA

Mutation Spots: A to G

No. 851

Mutation Spots Location: 22072

Mutation Sequence: TAATTTCAAAAATCTTAGGGAATTT

Mutation Spots: T to C

No. 852

Mutation Spots Location: 22073

Mutation Sequence: AATTTCAAAAATCTTAGGGAATTTG

Mutation Spots: C to T

No. 853

Mutation Spots Location: 22088

Mutation Sequence: AGGGAATTTGTGTTTAAGAATATTG

Mutation Spots: T to G

No. 854

Mutation Spots Location: 22164

Mutation Sequence: ATCTCCCTCAGGGTTTTTCGGTTTT

Mutation Spots: G to A

No. 855

Mutation Spots Location: 22176

Mutation Sequence: GTTTTTCGGTTTTAGAACCATTGGT

Mutation Spots: T to C

No. 856

Mutation Spots Location: 22192

Mutation Sequence: ACCATTGGTAGATTTGCCAATAGGT

Mutation Spots: T to C

No. 857

Mutation Spots Location: 22249

Mutation Sequence: TTTACATAGAAGTTATTTGACTCCT

Mutation Spots: T to C

No. 858

Mutation Spots Location: 22262

Mutation Sequence: TATTTGACTCCTGGTGATTCTTCTT

Mutation Spots: G to A

No. 859

Mutation Spots Location: 22268

Mutation Sequence: ACTCCTGGTGATTCTTCTTCAGGTT

Mutation Spots: T to C

No. 860

Mutation Spots Location: 22277

Mutation Sequence: GATTCTTCTTCAGGTTGGACAGCTG

Mutation Spots: G to A

No. 861

Mutation Spots Location: 22291

Mutation Sequence: TTGGACAGCTGGTGCTGCAGCTTAT

Mutation Spots: T to A

No. 862

Mutation Spots Location: 22314

Mutation Sequence: ATTATGTGGGTTATCTTCAACCTAG

Mutation Spots: A to G

No. 863

Mutation Spots Location: 22315

Mutation Sequence: TTATGTGGGTTATCTTCAACCTAGG

Mutation Spots: T to C

No. 864

Mutation Spots Location: 22375

Mutation Sequence: TACAGATGCTGTAGACTGTGCACTT

Mutation Spots: A to T

No. 865

Mutation Spots Location: 22386

Mutation Sequence: TAGACTGTGCACTTGACCCTCTCTC

Mutation Spots: T to G

No. 866

Mutation Spots Location: 22425

Mutation Sequence: CGTTGAAATCCTTCACTGTAGAAAA

Mutation Spots: T to A

No. 867

Mutation Spots Location: 22434

Mutation Sequence: CCTTCACTGTAGAAAAAGGAATCTA

Mutation Spots: A to T

No. 868

Mutation Spots Location: 22457

Mutation Sequence: TATCAAACTTCTAACTTTAGAGTCC

Mutation Spots: A to T

No. 869

Mutation Spots Location: 22485

Mutation Sequence: CAACAGAATCTATTGTTAGATTTCC

Mutation Spots: T to C

No. 870

Mutation Spots Location: 22510

Mutation Sequence: TAATATTACAAACTTGTGCCCTTTT

Mutation Spots: C to T

No. 871

Mutation Spots Location: 22602

Mutation Sequence: GTGTTGCTGATTATTCTGTCCTATA

Mutation Spots: A to G

No. 872

Mutation Spots Location: 22605

Mutation Sequence: TTGCTGATTATTCTGTCCTATATAA

Mutation Spots: C to T

No. 873

Mutation Spots Location: 22616

Mutation Sequence: TCTGTCCTATATAATTCCGCATCAT

Mutation Spots: A to T

No. 874

Mutation Spots Location: 22746

Mutation Sequence: AAATCGCTCCAGGGCAAACTGGAAA

Mutation Spots: G to A

No. 875

Mutation Spots Location: 22782

Mutation Sequence: ATAATTATAAATTACCAGATGATTT

Mutation Spots: T to C

No. 876

Mutation Spots Location: 22805

Mutation Sequence: TTTACAGGCTGCGTTATAGCTTGGA

Mutation Spots: G to C

No. 877

Mutation Spots Location: 22814

Mutation Sequence: TGCGTTATAGCTTGGAATTCTAACA

Mutation Spots: T to G

No. 878

Mutation Spots Location: 22826

Mutation Sequence: TGGAATTCTAACAATCTTGATTCTA

Mutation Spots: A to T

No. 879

Mutation Spots Location: 22846

Mutation Sequence: TTCTAAGGTTGGTGGTAATTATAAT

Mutation Spots: T to A

No. 880

Mutation Spots Location: 22850

Mutation Sequence: AAGGTTGGTGGTAATTATAATTACC

Mutation Spots: A to G

No. 881

Mutation Spots Location: 22872

Mutation Sequence: ACCTGTATAGATTGTTTAGGAAGTC

Mutation Spots: T to G

No. 882

Mutation Spots Location: 22876

Mutation Sequence: GTATAGATTGTTTAGGAAGTCTAAT

Mutation Spots: T to C

No. 883

Mutation Spots Location: 22881

Mutation Sequence: GATTGTTTAGGAAGTCTAATCTCAA

Mutation Spots: A to G

No. 884

Mutation Spots Location: 22896

Mutation Sequence: CTAATCTCAAACCTTTTGAGAGAGA

Mutation Spots: C to T

No. 885

Mutation Spots Location: 22915

Mutation Sequence: GAGAGATATTTCAACTGAAATCTAT

Mutation Spots: A to T

No. 886

Mutation Spots Location: 22925

Mutation Sequence: TCAACTGAAATCTATCAGGCCGGTA

Mutation Spots: T to A

No. 887

Mutation Spots Location: 22936

Mutation Sequence: CTATCAGGCCGGTAGCACACCTTGT

Mutation Spots: T to G

No. 888

Mutation Spots Location: 22941

Mutation Sequence: AGGCCGGTAGCACACCTTGTAATGG

Mutation Spots: C to T

No. 889

Mutation Spots Location: 22948

Mutation Sequence: TAGCACACCTTGTAATGGTGTTGAA

Mutation Spots: T to C

No. 890

Mutation Spots Location: 22957

Mutation Sequence: TTGTAATGGTGTTGAAGGTTTTAAT

Mutation Spots: T to C

No. 891

Mutation Spots Location: 22963

Mutation Sequence: TGGTGTTGAAGGTTTTAATTGTTAC

Mutation Spots: T to C

No. 892

Mutation Spots Location: 23080

Mutation Sequence: ACCAGCAACTGTTTGTGGACCTAAA

Mutation Spots: T to C

No. 893

Mutation Spots Location: 23093

Mutation Sequence: TGTGGACCTAAAAAGTCTACTAATT

Mutation Spots: A to G

No. 894

Mutation Spots Location: 23113

Mutation Sequence: TAATTTGGTTAAAAACAAATGTGTC

Mutation Spots: A to G

No. 895

Mutation Spots Location: 23190

Mutation Sequence: AAAAGTTTCTGCCTTTCCAACAATT

Mutation Spots: C to A

No. 896

Mutation Spots Location: 23194

Mutation Sequence: GTTTCTGCCTTTCCAACAATTTGGC

Mutation Spots: C to T

No. 897

Mutation Spots Location: 23233

Mutation Sequence: CACTACTGATGCTGTCCGTGATCCA

Mutation Spots: T to C

No. 898

Mutation Spots Location: 23269

Mutation Sequence: GATTCTTGACATTACACCATGTTCT

Mutation Spots: T to C

No. 899

Mutation Spots Location: 23281

Mutation Sequence: TACACCATGTTCTTTTGGTGGTGTC

Mutation Spots: T to C

No. 900

Mutation Spots Location: 23308

Mutation Sequence: TGTTATAACACCAGGAACAAATACT

Mutation Spots: A to T

No. 901

Mutation Spots Location: 23323

Mutation Sequence: AACAAATACTTCTAACCAGGTTGCT

Mutation Spots: T to C

No. 902

Mutation Spots Location: 23376

Mutation Sequence: AAGTCCCTGTTGCTATTCATGCAGA

Mutation Spots: C to T

No. 903

Mutation Spots Location: 23377

Mutation Sequence: AGTCCCTGTTGCTATTCATGCAGAT

Mutation Spots: T to C

No. 904

Mutation Spots Location: 23410

Mutation Sequence: TCCTACTTGGCGTGTTTATTCTACA

Mutation Spots: T to C

No. 905

Mutation Spots Location: 23477

Mutation Sequence: GCTGAACATGTCAACAACTCATATG

Mutation Spots: A to C

No. 906

Mutation Spots Location: 23503

Mutation Sequence: GTGTGACATACCCATTGGTGCAGGT

Mutation Spots: C to T

No. 907

Mutation Spots Location: 23504

Mutation Sequence: TGTGACATACCCATTGGTGCAGGTA

Mutation Spots: A to G

No. 908

Mutation Spots Location: 23538

Mutation Sequence: GTTATCAGACTCAGACTAATTCTCC

Mutation Spots: A to T

No. 909

Mutation Spots Location: 23551

Mutation Sequence: GACTAATTCTCCTCGGCGGGCACGT

Mutation Spots: T to G

No. 910

Mutation Spots Location: 23558

Mutation Sequence: TCTCCTCGGCGGGCACGTAGTGTAG

Mutation Spots: G to A

No. 911

Mutation Spots Location: 23560

Mutation Sequence: TCCTCGGCGGGCACGTAGTGTAGCT

Mutation Spots: A to T

No. 912

Mutation Spots Location: 23593

Mutation Sequence: CATCATTGCCTACACTATGTCACTT

Mutation Spots: C to T

No. 913

Mutation Spots Location: 23635

Mutation Sequence: TGCTTACTCTAATAACTCTATTGCC

Mutation Spots: T to C

No. 914

Mutation Spots Location: 23646

Mutation Sequence: ATAACTCTATTGCCATACCCACAAA

Mutation Spots: C to A

No. 915

Mutation Spots Location: 23660

Mutation Sequence: ATACCCACAAATTTTACTATTAGTG

Mutation Spots: T to C

No. 916

Mutation Spots Location: 23718

Mutation Sequence: AGACATCAGTAGATTGTACAATGTA

Mutation Spots: A to G

No. 917

Mutation Spots Location: 23760

Mutation Sequence: CTGAATGCAGCAATCTTTTGTTGCA

Mutation Spots: A to G

No. 918

Mutation Spots Location: 23844

Mutation Sequence: ACAAAAACACCCAAGAAGTTTTTGC

Mutation Spots: A to G

No. 919

Mutation Spots Location: 23926

Mutation Sequence: TTCACAAATATTACCAGATCCATCA

Mutation Spots: A to G

No. 920

Mutation Spots Location: 23938

Mutation Sequence: ACCAGATCCATCAAAACCAAGCAAG

Mutation Spots: A to T

No. 921

Mutation Spots Location: 23944

Mutation Sequence: TCCATCAAAACCAAGCAAGAGGTCA

Mutation Spots: A to C

No. 922

Mutation Spots Location: 23960

Mutation Sequence: AAGAGGTCATTTATTGAAGATCTAC

Mutation Spots: A to G

No. 923

Mutation Spots Location: 23961

Mutation Sequence: AGAGGTCATTTATTGAAGATCTACT

Mutation Spots: T to C

No. 924

Mutation Spots Location: 23983

Mutation Sequence: ACTTTTCAACAAAGTGACACTTGCA

Mutation Spots: A to G

No. 925

Mutation Spots Location: 24009

Mutation Sequence: ATGCTGGCTTCATCAAACAATATGG

Mutation Spots: T to C

No. 926

Mutation Spots Location: 24034

Mutation Sequence: TGATTGCCTTGGTGATATTGCTGCT

Mutation Spots: T to A

No. 927

Mutation Spots Location: 24043

Mutation Sequence: TGGTGATATTGCTGCTAGAGACCTC

Mutation Spots: T to A

No. 928

Mutation Spots Location: 24057

Mutation Sequence: CTAGAGACCTCATTTGTGCACAAAA

Mutation Spots: T to C

No. 929

Mutation Spots Location: 24064

Mutation Sequence: CCTCATTTGTGCACAAAAGTTTAAC

Mutation Spots: A to C

No. 930

Mutation Spots Location: 24087

Mutation Sequence: ACGGCCTTACTGTTTTGCCACCTTT

Mutation Spots: T to C

No. 931

Mutation Spots Location: 24104

Mutation Sequence: CCACCTTTGCTCACAGATGAAATGA

Mutation Spots: A to G

No. 932

Mutation Spots Location: 24127

Mutation Sequence: GATTGCTCAATACACTTCTGCACTG

Mutation Spots: C to T

No. 933

Mutation Spots Location: 24177

Mutation Sequence: GGACCTTTGGTGCAGGTGCTGCATT

Mutation Spots: C to A

No. 934

Mutation Spots Location: 24178

Mutation Sequence: GACCTTTGGTGCAGGTGCTGCATTA

Mutation Spots: A to G

No. 935

Mutation Spots Location: 24219

Mutation Sequence: TGCAAATGGCTTATAGGTTTAATGG

Mutation Spots: A to G

No. 936

Mutation Spots Location: 24265

Mutation Sequence: TCTCTATGAGAACCAAAAATTGATT

Mutation Spots: C to T

No. 937

Mutation Spots Location: 24296

Mutation Sequence: CAATTTAATAGTGCTATTGGCAAAA

Mutation Spots: G to T

No. 938

Mutation Spots Location: 24343

Mutation Sequence: AGCAAGTGCACTTGGAAAACTTCAA

Mutation Spots: T to G

No. 939

Mutation Spots Location: 24448

Mutation Sequence: TTTAAATGATATCCTTTCACGTCTT

Mutation Spots: C to T

No. 940

Mutation Spots Location: 24449

Mutation Sequence: TTAAATGATATCCTTTCACGTCTTG

Mutation Spots: C to T

No. 941

Mutation Spots Location: 24455

Mutation Sequence: GATATCCTTTCACGTCTTGACAAAG

Mutation Spots: C to T

No. 942

Mutation Spots Location: 24474

Mutation Sequence: ACAAAGTTGAGGCTGAAGTGCAAAT

Mutation Spots: C to T

No. 943

Mutation Spots Location: 24475

Mutation Sequence: CAAAGTTGAGGCTGAAGTGCAAATT

Mutation Spots: T to G

No. 944

Mutation Spots Location: 24494

Mutation Sequence: CAAATTGATAGGTTGATCACAGGCA

Mutation Spots: T to G

No. 945

Mutation Spots Location: 24499

Mutation Sequence: TGATAGGTTGATCACAGGCAGACTT

Mutation Spots: C to T

No. 946

Mutation Spots Location: 24500

Mutation Sequence: GATAGGTTGATCACAGGCAGACTTC

Mutation Spots: A to G

No. 947

Mutation Spots Location: 24528

Mutation Sequence: GTTTGCAGACATATGTGACTCAACA

Mutation Spots: A to T

No. 948

Mutation Spots Location: 24533

Mutation Sequence: CAGACATATGTGACTCAACAATTAA

Mutation Spots: A to G

No. 949

Mutation Spots Location: 24563

Mutation Sequence: GCTGCAGAAATCAGAGCTTCTGCTA

Mutation Spots: A to C

No. 950

Mutation Spots Location: 24602

Mutation Sequence: AAAATGTCAGAGTGTGTACTTGGAC

Mutation Spots: T to C

No. 951

Mutation Spots Location: 24654

Mutation Sequence: AGGGCTATCATCTTATGTCCTTCCC

Mutation Spots: T to C

No. 952

Mutation Spots Location: 24664

Mutation Sequence: TCTTATGTCCTTCCCTCAGTCAGCA

Mutation Spots: C to T

No. 953

Mutation Spots Location: 24666

Mutation Sequence: TTATGTCCTTCCCTCAGTCAGCACC

Mutation Spots: C to A

No. 954

Mutation Spots Location: 24678

Mutation Sequence: CTCAGTCAGCACCTCATGGTGTAGT

Mutation Spots: C to T

No. 955

Mutation Spots Location: 24695

Mutation Sequence: GGTGTAGTCTTCTTGCATGTGACTT

Mutation Spots: T to C

No. 956

Mutation Spots Location: 24754

Mutation Sequence: TCCTGCCATTTGTCATGATGGAAAA

Mutation Spots: T to C

No. 957

Mutation Spots Location: 24826

Mutation Sequence: GTTTGTAACACAAAGGAATTTTTAT

Mutation Spots: A to G

No. 958

Mutation Spots Location: 24836

Mutation Sequence: CAAAGGAATTTTTATGAACCACAAA

Mutation Spots: T to C

No. 959

Mutation Spots Location: 24877

Mutation Sequence: CACATTTGTGTCTGGTAACTGTGAT

Mutation Spots: T to A

No. 960

Mutation Spots Location: 24880

Mutation Sequence: ATTTGTGTCTGGTAACTGTGATGTT

Mutation Spots: T to C

No. 961

Mutation Spots Location: 24881

Mutation Sequence: TTTGTGTCTGGTAACTGTGATGTTG

Mutation Spots: A to G

No. 962

Mutation Spots Location: 24882

Mutation Sequence: TTGTGTCTGGTAACTGTGATGTTGT

Mutation Spots: A to G

No. 963

Mutation Spots Location: 24885

Mutation Sequence: TGTCTGGTAACTGTGATGTTGTAAT

Mutation Spots: G to A

No. 964

Mutation Spots Location: 24901

Mutation Sequence: TGTTGTAATAGGAATTGTCAACAAC

Mutation Spots: A to G

No. 965

Mutation Spots Location: 24907

Mutation Sequence: AATAGGAATTGTCAACAACACAGTT

Mutation Spots: C to T

No. 966

Mutation Spots Location: 24931

Mutation Sequence: TTATGATCNNTTGCAACCTGAATTA

Mutation Spots: G to A

No. 967

Mutation Spots Location: 24949

Mutation Sequence: TGAATTAGACTCATTCAAGGAGGAG

Mutation Spots: A to G

No. 968

Mutation Spots Location: 24977

Mutation Sequence: GATAAATATTTTAAGAATCATACAT

Mutation Spots: A to G

No. 969

Mutation Spots Location: 25051

Mutation Sequence: AAACATTCAAAAAGAAATTGACCGC

Mutation Spots: A to G

No. 970

Mutation Spots Location: 25079

Mutation Sequence: AATGAGGTTGCCAAGAATTTAAATG

Mutation Spots: A to G

No. 971

Mutation Spots Location: 25080

Mutation Sequence: ATGAGGTTGCCAAGAATTTAAATGA

Mutation Spots: A to G

No. 972

Mutation Spots Location: 25116

Mutation Sequence: ATCTCCAAGAACTTGGAAAGTATGA

Mutation Spots: T to C

No. 973

Mutation Spots Location: 25138

Mutation Sequence: TGAGCAGTATATAAAATGGCCATGG

Mutation Spots: A to G

No. 974

Mutation Spots Location: 25145

Mutation Sequence: TATATAAAATGGCCATGGTACATTT

Mutation Spots: C to T

No. 975

Mutation Spots Location: 25152

Mutation Sequence: AATGGCCATGGTACATTTGGCTAGG

Mutation Spots: A to G

No. 976

Mutation Spots Location: 25204

Mutation Sequence: AATGGTGACAATTATGCTTTGCTGT

Mutation Spots: T to C

No. 977

Mutation Spots Location: 25207

Mutation Sequence: GGTGACAATTATGCTTTGCTGTATG

Mutation Spots: G to A

No. 978

Mutation Spots Location: 25223

Mutation Sequence: TGCTGTATGACCAGTTGCTGTAGTT

Mutation Spots: A to T

No. 979

Mutation Spots Location: 25239

Mutation Sequence: GCTGTAGTTGTCTCAAGGGCTGTTG

Mutation Spots: T to C

No. 980

Mutation Spots Location: 25297

Mutation Sequence: CGACTCTGAGCCAGTGCTCAAAGGA

Mutation Spots: A to G

No. 981

Mutation Spots Location: 25301

Mutation Sequence: TCTGAGCCAGTGCTCAAAGGAGTCA

Mutation Spots: C to T

No. 982

Mutation Spots Location: 25315

Mutation Sequence: CAAAGGAGTCAAATTACATTACACA

Mutation Spots: A to G

No. 983

Mutation Spots Location: 25365

Mutation Sequence: GAGAATCTTCACAATTGGAACTGTA

Mutation Spots: A to C

No. 984

Mutation Spots Location: 25376

Mutation Sequence: CAATTGGAACTGTAACTTTGAAGCA

Mutation Spots: T to C

No. 985

Mutation Spots Location: 25385

Mutation Sequence: CTGTAACTTTGAAGCAAGGTGAAAT

Mutation Spots: A to C

No. 986

Mutation Spots Location: 25403

Mutation Sequence: GTGAAATCAAGGATGCTACTCCTTC

Mutation Spots: A to G

No. 987

Mutation Spots Location: 25441

Mutation Sequence: GCTACTGCAACGATACCGATACAAG

Mutation Spots: A to C

No. 988

Mutation Spots Location: 25496

Mutation Sequence: GCGTTGCACTTCTTGCTGTTTTTCA

Mutation Spots: T to C

No. 989

Mutation Spots Location: 25540

Mutation Sequence: ACCCTCAAAAAGAGATGGCAACTAG

Mutation Spots: A to G

No. 990

Mutation Spots Location: 25546

Mutation Sequence: AAAAAGAGATGGCAACTAGCACTCT

Mutation Spots: C to T

No. 991

Mutation Spots Location: 25547

Mutation Sequence: AAAAGAGATGGCAACTAGCACTCTC

Mutation Spots: A to T

No. 992

Mutation Spots Location: 25557

Mutation Sequence: GCAACTAGCACTCTCCAAGGGTGTT

Mutation Spots: C to T

No. 993

Mutation Spots Location: 25565

Mutation Sequence: CACTCTCCAAGGGTGTTCACTTTGT

Mutation Spots: G to T

No. 994

Mutation Spots Location: 25607

Mutation Sequence: TGTTTGTAACAGTTTACTCACACCT

Mutation Spots: T to C

No. 995

Mutation Spots Location: 25620

Mutation Sequence: TTACTCACACCTTTTGCTCGTTGCT

Mutation Spots: T to C

No. 996

Mutation Spots Location: 25681

Mutation Sequence: TTAGTCTACTTCTTGCAGAGTATAA

Mutation Spots: T to C

No. 997

Mutation Spots Location: 25700

Mutation Sequence: GTATAAACTTTGTAAGAATAATAAT

Mutation Spots: T to A

No. 998

Mutation Spots Location: 25734

Mutation Sequence: GCTTTGCTGGAAATGCCGTTCCAAA

Mutation Spots: A to C

No. 999

Mutation Spots Location: 25764

Mutation Sequence: ATTACTTTATGATGCCAACTATTTT

Mutation Spots: T to C

No. 1000

Mutation Spots Location: 25768

Mutation Sequence: CTTTATGATGCCAACTATTTTCTTT

Mutation Spots: A to G

No. 1001

Mutation Spots Location: 25805

Mutation Sequence: ATTGTTACGACTATTGTATACCTTA

Mutation Spots: A to G

No. 1002

Mutation Spots Location: 25816

Mutation Sequence: TATTGTATACCTTACAATAGTGTAA

Mutation Spots: T to C

No. 1003

Mutation Spots Location: 25819

Mutation Sequence: TGTATACCTTACAATAGTGTAACTT

Mutation Spots: A to T

No. 1004

Mutation Spots Location: 25852

Mutation Sequence: GTCATTACTTCAGGTGATGGCACAA

Mutation Spots: G to A

No. 1005

Mutation Spots Location: 25873

Mutation Sequence: ACAACAAGTCCTATTTCTGAACATG

Mutation Spots: A to G

No. 1006

Mutation Spots Location: 25892

Mutation Sequence: AACATGACTACCAGATTGGTGGTTA

Mutation Spots: A to G

No. 1007

Mutation Spots Location: 25903

Mutation Sequence: CAGATTGGTGGTTATACTGAAAAAT

Mutation Spots: T to G

No. 1008

Mutation Spots Location: 25957

Mutation Sequence: TTACACAGTTACTTCACTTCAGACT

Mutation Spots: T to C

No. 1009

Mutation Spots Location: 25960

Mutation Sequence: CACAGTTACTTCACTTCAGACTATT

Mutation Spots: A to C

No. 1010

Mutation Spots Location: 25982

Mutation Sequence: ATTACCAGCTGTACTCAACTCAATT

Mutation Spots: A to G

No. 1011

Mutation Spots Location: 26005

Mutation Sequence: TTGAGTACAGACACTGGTGTTGAAC

Mutation Spots: A to G

No. 1012

Mutation Spots Location: 26061

Mutation Sequence: TGATGAGCCTGAAGAACATGTCCAA

Mutation Spots: A to G

No. 1013

Mutation Spots Location: 26124

Mutation Sequence: AGTAATGGAACCAATTTATGATGAA

Mutation Spots: A to T

No. 1014

Mutation Spots Location: 26142

Mutation Sequence: TGATGAACCGACGACGACTACTAGC

Mutation Spots: G to C

No. 1015

Mutation Spots Location: 26148

Mutation Sequence: ACCGACGACGACTACTAGCGTGCCT

Mutation Spots: T to C

No. 1016

Mutation Spots Location: 26151

Mutation Sequence: GACGACGACTACTAGCGTGCCTTTG

Mutation Spots: T to C

No. 1017

Mutation Spots Location: 26165

Mutation Sequence: GCGTGCCTTTGTAAGCACAAGCTGA

Mutation Spots: A to G

No. 1018

Mutation Spots Location: 26191

Mutation Sequence: GAGTACGAACTTATGTACTCATTCG

Mutation Spots: A to T

No. 1019

Mutation Spots Location: 26219

Mutation Sequence: CGGAAGAGACAGGTACGTTAATAGT

Mutation Spots: G to A

No. 1020

Mutation Spots Location: 26222

Mutation Sequence: AAGAGACAGGTACGTTAATAGTTAA

Mutation Spots: C to A

No. 1021

Mutation Spots Location: 26225

Mutation Sequence: AGACAGGTACGTTAATAGTTAATAG

Mutation Spots: T to C

No. 1022

Mutation Spots Location: 26282

Mutation Sequence: TGCTAGTTACACTAGCCATCCTTAC

Mutation Spots: T to C

No. 1023

Mutation Spots Location: 26318

Mutation Sequence: TGTGTGCGTACTGCTGCAATATTGT

Mutation Spots: G to T

No. 1024

Mutation Spots Location: 26351

Mutation Sequence: GTCTTGTAAAACCTTCTTTTTACGT

Mutation Spots: C to T

No. 1025

Mutation Spots Location: 26401

Mutation Sequence: TCTTCTAGAGTTCCTGATCTTCTGG

Mutation Spots: C to T

No. 1026

Mutation Spots Location: 26444

Mutation Sequence: TATATTAGTTTTTCTGTTTGGAACT

Mutation Spots: T to C

No. 1027

Mutation Spots Location: 26486

Mutation Sequence: AGATTCCAACGGTACTATTACCGTT

Mutation Spots: T to A

No. 1028

Mutation Spots Location: 26489

Mutation Sequence: TTCCAACGGTACTATTACCGTTGAA

Mutation Spots: T to C

No. 1029

Mutation Spots Location: 26504

Mutation Sequence: TACCGTTGAAGAGCTTAAAAAGCTC

Mutation Spots: G to A

No. 1030

Mutation Spots Location: 26505

Mutation Sequence: ACCGTTGAAGAGCTTAAAAAGCTCC

Mutation Spots: C to T

No. 1031

Mutation Spots Location: 26543

Mutation Sequence: CCTAGTAATAGGTTTCCTATTCCTT

Mutation Spots: T to A

No. 1032

Mutation Spots Location: 26558

Mutation Sequence: CCTATTCCTTACATGGATTTGTCTT

Mutation Spots: A to T

No. 1033

Mutation Spots Location: 26571

Mutation Sequence: TGGATTTGTCTTCTACAATTTGCCT

Mutation Spots: C to T

No. 1034

Mutation Spots Location: 26586

Mutation Sequence: CAATTTGCCTATGCCAACAGGAATA

Mutation Spots: G to T

No. 1035

Mutation Spots Location: 26649

Mutation Sequence: TTATGGCCAGTAACTTTAGCTTGTT

Mutation Spots: A to G

No. 1036

Mutation Spots Location: 26654

Mutation Sequence: GCCAGTAACTTTAGCTTGTTTTGTG

Mutation Spots: A to G

No. 1037

Mutation Spots Location: 26668

Mutation Sequence: CTTGTTTTGTGCTTGCTGCTGTTTA

Mutation Spots: T to A

No. 1038

Mutation Spots Location: 26672

Mutation Sequence: TTTTGTGCTTGCTGCTGTTTACAGA

Mutation Spots: T to A

No. 1039

Mutation Spots Location: 26687

Mutation Sequence: TGTTTACAGAATAAATTGGATCACC

Mutation Spots: A to C

No. 1040

Mutation Spots Location: 26694

Mutation Sequence: AGAATAAATTGGATCACCGGTGGAA

Mutation Spots: A to C

No. 1041

Mutation Spots Location: 26696

Mutation Sequence: AATAAATTGGATCACCGGTGGAATT

Mutation Spots: C to T

No. 1042

Mutation Spots Location: 26697

Mutation Sequence: ATAAATTGGATCACCGGTGGAATTG

Mutation Spots: A to T

No. 1043

Mutation Spots Location: 26731

Mutation Sequence: TGGCTTGTCTTGTAGGCTTGATGTG

Mutation Spots: T to C

No. 1044

Mutation Spots Location: 26750

Mutation Sequence: GATGTGGCTGAGCTACTTCATTGCT

Mutation Spots: C to T

No. 1045

Mutation Spots Location: 26780

Mutation Sequence: CAGACTGTTTGCGCGTACGCGTTCC

Mutation Spots: G to A

No. 1046

Mutation Spots Location: 26790

Mutation Sequence: GCGCGTACGCGTTCCATGTGGTCAT

Mutation Spots: T to C

No. 1047

Mutation Spots Location: 26816

Mutation Sequence: CAATCCAGAAACTAACATTCTTCTC

Mutation Spots: T to C

No. 1048

Mutation Spots Location: 26868

Mutation Sequence: ACCAGACCGCTTCTAGAAAGTGAAC

Mutation Spots: C to T

No. 1049

Mutation Spots Location: 26890

Mutation Sequence: AACTCGTAATCGGAGCTGTGATCCT

Mutation Spots: G to A

No. 1050

Mutation Spots Location: 26894

Mutation Sequence: CGTAATCGGAGCTGTGATCCTTCGT

Mutation Spots: T to G

No. 1051

Mutation Spots Location: 26916

Mutation Sequence: CGTGGACATCTTCGTATTGCTGGAC

Mutation Spots: C to T

No. 1052

Mutation Spots Location: 26959

Mutation Sequence: ACATCAAGGACCTGCCTAAAGAAAT

Mutation Spots: T to C

No. 1053

Mutation Spots Location: 27046

Mutation Sequence: GTGACTCAGGTTTTGCTGCATACAG

Mutation Spots: T to C

No. 1054

Mutation Spots Location: 27069

Mutation Sequence: AGTCGCTACAGGATTGGCAACTATA

Mutation Spots: A to C

No. 1055

Mutation Spots Location: 27077

Mutation Sequence: CAGGATTGGCAACTATAAATTAAAC

Mutation Spots: C to T

No. 1056

Mutation Spots Location: 27081

Mutation Sequence: ATTGGCAACTATAAATTAAACACAG

Mutation Spots: A to G

No. 1057

Mutation Spots Location: 27092

Mutation Sequence: TAAATTAAACACAGACCATTCCAGT

Mutation Spots: A to C

No. 1058

Mutation Spots Location: 27098

Mutation Sequence: AAACACAGACCATTCCAGTAGCAGT

Mutation Spots: T to C

No. 1059

Mutation Spots Location: 27107

Mutation Sequence: CCATTCCAGTAGCAGTGACAATATT

Mutation Spots: C to T

No. 1060

Mutation Spots Location: 27108

Mutation Sequence: CATTCCAGTAGCAGTGACAATATTG

Mutation Spots: A to G

No. 1061

Mutation Spots Location: 27127

Mutation Sequence: ATATTGCTTTGCTTGTACAGTAAGT

Mutation Spots: T to A

No. 1062

Mutation Spots Location: 27128

Mutation Sequence: TATTGCTTTGCTTGTACAGTAAGTG

Mutation Spots: T to C

No. 1063

Mutation Spots Location: 27137

Mutation Sequence: GCTTGTACAGTAAGTGACAACAGAT

Mutation Spots: A to G

No. 1064

Mutation Spots Location: 27161

Mutation Sequence: TGTTTCATCTCGTTGACTTTCAGGT

Mutation Spots: T to C

No. 1065

Mutation Spots Location: 27168

Mutation Sequence: TCTCGTTGACTTTCAGGTTACTATA

Mutation Spots: T to C

No. 1066

Mutation Spots Location: 27263

Mutation Sequence: TCATAATTAAAAATTTATCTAAGTC

Mutation Spots: A to G

No. 1067

Mutation Spots Location: 27291

Mutation Sequence: AACTGAGAATAAATATTCTCAATTA

Mutation Spots: A to G

No. 1068

Mutation Spots Location: 27363

Mutation Sequence: TCTTTTCTTGGCACTGATAACACTC

Mutation Spots: A to C

No. 1069

Mutation Spots Location: 27366

Mutation Sequence: TTTCTTGGCACTGATAACACTCGCT

Mutation Spots: G to A

No. 1070

Mutation Spots Location: 27402

Mutation Sequence: TTATCACTACCAAGAGTGTGTTAGA

Mutation Spots: A to G

No. 1071

Mutation Spots Location: 27429

Mutation Sequence: TACAACAGTACTTTTAAAAGAACCT

Mutation Spots: T to C

No. 1072

Mutation Spots Location: 27488

Mutation Sequence: TTCATCCTCTAGCTGATAACAAATT

Mutation Spots: C to T

No. 1073

Mutation Spots Location: 27513

Mutation Sequence: TGCACTGACTTGCTTTAGCACTCAA

Mutation Spots: C to T

No. 1074

Mutation Spots Location: 27572

Mutation Sequence: TCTATCAGTTACGTGCCAGATCAGT

Mutation Spots: G to A

No. 1075

Mutation Spots Location: 27581

Mutation Sequence: TACGTGCCAGATCAGTTTCACCTAA

Mutation Spots: C to T

No. 1076

Mutation Spots Location: 27608

Mutation Sequence: TGTTCATCAGACAAGAGGAAGTTCA

Mutation Spots: A to G

No. 1077

Mutation Spots Location: 27644

Mutation Sequence: CTCCAATTTTTCTTATTGTTGCGGC

Mutation Spots: T to C

No. 1078

Mutation Spots Location: 27675

Mutation Sequence: GTTTATAACACTTTGCTTCACACTC

Mutation Spots: T to C

No. 1079

Mutation Spots Location: 27728

Mutation Sequence: ATTAATTGACTTCTATTTGTGCTTT

Mutation Spots: C to T

No. 1080

Mutation Spots Location: 27745

Mutation Sequence: TGTGCTTTTTAGCCTTTCTGCTATT

Mutation Spots: C to T

No. 1081

Mutation Spots Location: 27773

Mutation Sequence: TGTTTTAATTATGCTTATTATCTTT

Mutation Spots: G to A

No. 1082

Mutation Spots Location: 27796

Mutation Sequence: TTTGGTTCTCACTTGAACTGCAAGA

Mutation Spots: T to C

No. 1083

Mutation Spots Location: 27821

Mutation Sequence: TCATAATGAAACTTGTCACGCCTAA

Mutation Spots: T to C

No. 1084

Mutation Spots Location: 27862

Mutation Sequence: TTGTTTTCTTAGGAATCATCACAAC

Mutation Spots: G to A

No. 1085

Mutation Spots Location: 27872

Mutation Sequence: AGGAATCATCACAACTGTAGCTGCA

Mutation Spots: A to T

No. 1086

Mutation Spots Location: 27893

Mutation Sequence: TGCATTTCATCAAGAATGTAGTTTA

Mutation Spots: A to G

No. 1087

Mutation Spots Location: 27909

Mutation Sequence: TGTAGTTTACAGTCATGTACTCAAC

Mutation Spots: T to C

No. 1088

Mutation Spots Location: 27972

Mutation Sequence: TTCTATTCTAAATGGTATATTAGAG

Mutation Spots: T to C

No. 1089

Mutation Spots Location: 27979

Mutation Sequence: CTAAATGGTATATTAGAGTAGGAGC

Mutation Spots: T to C

No. 1090

Mutation Spots Location: 28034

Mutation Sequence: CGTGGATGAGGCTGGTTCTAAATCA

Mutation Spots: T to C

No. 1091

Mutation Spots Location: 28065

Mutation Sequence: CAGTACATCGATATCGGTAATTATA

Mutation Spots: A to G

No. 1092

Mutation Spots Location: 28106

Mutation Sequence: TTTTACAATTAATTGCCAGGAACCT

Mutation Spots: T to C

No. 1093

Mutation Spots Location: 28149

Mutation Sequence: GTGCGTTGTTCGTTCTATGAAGACT

Mutation Spots: T to C

No. 1094

Mutation Spots Location: 28159

Mutation Sequence: CGTTCTATGAAGACTTTTTAGAGTA

Mutation Spots: A to G

No. 1095

Mutation Spots Location: 28247

Mutation Sequence: CCCCAAAATCAGCGAAATGCACCCC

Mutation Spots: C to T

No. 1096

Mutation Spots Location: 28253

Mutation Sequence: AATCAGCGAAATGCACCCCGCATTA

Mutation Spots: G to A

No. 1097

Mutation Spots Location: 28268

Mutation Sequence: CCCCGCATTACGTTTGGTGGACCCT

Mutation Spots: T to C

No. 1098

Mutation Spots Location: 28276

Mutation Sequence: TACGTTTGGTGGACCCTCAGATTCA

Mutation Spots: A to T

No. 1099

Mutation Spots Location: 28313

Mutation Sequence: CAGAATGGAGAACGCAGTGGGGCGC

Mutation Spots: C to A

No. 1100

Mutation Spots Location: 28314

Mutation Sequence: AGAATGGAGAACGCAGTGGGGCGCG

Mutation Spots: G to A

No. 1101

Mutation Spots Location: 28316

Mutation Sequence: AATGGAGAACGCAGTGGGGCGCGAT

Mutation Spots: A to C

No. 1102

Mutation Spots Location: 28322

Mutation Sequence: GAACGCAGTGGGGCGCGATCAAAAC

Mutation Spots: G to A

No. 1103

Mutation Spots Location: 28327

Mutation Sequence: CAGTGGGGCGCGATCAAAACAACGT

Mutation Spots: A to T

No. 1104

Mutation Spots Location: 28358

Mutation Sequence: CAAGGTTTACCCAATAATACTGCGT

Mutation Spots: A to C

No. 1105

Mutation Spots Location: 28450

Mutation Sequence: AATTAACACCAATAGCAGTCCAGAT

Mutation Spots: T to C

No. 1106

Mutation Spots Location: 28468

Mutation Sequence: TCCAGATGACCAAATTGGCTACTAC

Mutation Spots: A to G

No. 1107

Mutation Spots Location: 28492

Mutation Sequence: CCGAAGAGCTACCAGACGAATTCGT

Mutation Spots: C to T

No. 1108

Mutation Spots Location: 28536

Mutation Sequence: AAGATCTCAGTCCAAGATGGTATTT

Mutation Spots: C to A

No. 1109

Mutation Spots Location: 28537

Mutation Sequence: AGATCTCAGTCCAAGATGGTATTTC

Mutation Spots: A to C

No. 1110

Mutation Spots Location: 28594

Mutation Sequence: TCCCTATGGTGCTAACAAAGACGGC

Mutation Spots: T to G

No. 1111

Mutation Spots Location: 28603

Mutation Sequence: TGCTAACAAAGACGGCATCATATGG

Mutation Spots: C to T

No. 1112

Mutation Spots Location: 28621

Mutation Sequence: CATATGGGTTGCAACTGAGGGAGCC

Mutation Spots: A to C

No. 1113

Mutation Spots Location: 28644

Mutation Sequence: CCTTGAATACACCAAAAGATCACAT

Mutation Spots: C to T

No. 1114

Mutation Spots Location: 28663

Mutation Sequence: TCACATTGGCACCCGCAATCCTGCT

Mutation Spots: C to G

No. 1115

Mutation Spots Location: 28664

Mutation Sequence: CACATTGGCACCCGCAATCCTGCTA

Mutation Spots: C to T

No. 1116

Mutation Spots Location: 28687

Mutation Sequence: TAACAATGCTGCAATCGTGCTACAA

Mutation Spots: A to G

No. 1117

Mutation Spots Location: 28724

Mutation Sequence: ACAACATTGCCAAAAGGCTTCTACG

Mutation Spots: A to G

No. 1118

Mutation Spots Location: 28734

Mutation Sequence: CAAAAGGCTTCTACGCAGAGGGGAG

Mutation Spots: A to C

No. 1119

Mutation Spots Location: 28743

Mutation Sequence: TCTACGCAGAGGGGAGCAGAGGCGG

Mutation Spots: G to T

No. 1120

Mutation Spots Location: 28757

Mutation Sequence: AGCAGAGGCGGCAGTCAAGCCTCTT

Mutation Spots: A to C

No. 1121

Mutation Spots Location: 28766

Mutation Sequence: GGCAGTCAAGCCTCTTCTCGTTCCT

Mutation Spots: T to G

No. 1122

Mutation Spots Location: 28777

Mutation Sequence: CTCTTCTCGTTCCTCATCACGTAGT

Mutation Spots: C to A

No. 1123

Mutation Spots Location: 28807

Mutation Sequence: CAGTTCAAGAAATTCAACTCCAGGC

Mutation Spots: T to C

No. 1124

Mutation Spots Location: 28819

Mutation Sequence: TTCAACTCCAGGCAGCAGTAGGGGA

Mutation Spots: C to T

No. 1125

Mutation Spots Location: 28822

Mutation Sequence: AACTCCAGGCAGCAGTAGGGGAACT

Mutation Spots: C to A

No. 1126

Mutation Spots Location: 28955

Mutation Sequence: CAAGGCCAAACTGTCACTAAGAAAT

Mutation Spots: G to A

No. 1127

Mutation Spots Location: 28981

Mutation Sequence: TGCTGCTGAGGCTTCTAAGAAGCCT

Mutation Spots: T to C

No. 1128

Mutation Spots Location: 28984

Mutation Sequence: TGCTGAGGCTTCTAAGAAGCCTCGG

Mutation Spots: T to C

No. 1129

Mutation Spots Location: 28996

Mutation Sequence: TAAGAAGCCTCGGCAAAAACGTACT

Mutation Spots: G to A

No. 1130

Mutation Spots Location: 28997

Mutation Sequence: AAGAAGCCTCGGCAAAAACGTACTG

Mutation Spots: C to T

No. 1131

Mutation Spots Location: 29061

Mutation Sequence: GTGGTCCAGAACAAACCCAAGGAAA

Mutation Spots: A to G

No. 1132

Mutation Spots Location: 29085

Mutation Sequence: ATTTTGGGGACCAGGAACTAATCAG

Mutation Spots: A to G

No. 1133

Mutation Spots Location: 29087

Mutation Sequence: TTTGGGGACCAGGAACTAATCAGAC

Mutation Spots: G to A

No. 1134

Mutation Spots Location: 29088

Mutation Sequence: TTGGGGACCAGGAACTAATCAGACA

Mutation Spots: A to G

No. 1135

Mutation Spots Location: 29092

Mutation Sequence: GGACCAGGAACTAATCAGACAAGGA

Mutation Spots: A to G

No. 1136

Mutation Spots Location: 29104

Mutation Sequence: AATCAGACAAGGAACTGATTACAAA

Mutation Spots: A to T

No. 1137

Mutation Spots Location: 29133

Mutation Sequence: GGCCGCAAATTGCACAATTTGCCCC

Mutation Spots: C to T

No. 1138

Mutation Spots Location: 29143

Mutation Sequence: TGCACAATTTGCCCCCAGCGCTTCA

Mutation Spots: C to T

No. 1139

Mutation Spots Location: 29151

Mutation Sequence: TTGCCCCCAGCGCTTCAGCGTTCTT

Mutation Spots: C to T

No. 1140

Mutation Spots Location: 29163

Mutation Sequence: CTTCAGCGTTCTTCGGAATGTCGCG

Mutation Spots: T to C

No. 1141

Mutation Spots Location: 29179

Mutation Sequence: AATGTCGCGCATTGGCATGGAAGTC

Mutation Spots: T to C

No. 1142

Mutation Spots Location: 29211

Mutation Sequence: CGGGAACGTGGTTGACCTACACAGG

Mutation Spots: T to C

No. 1143

Mutation Spots Location: 29219

Mutation Sequence: TGGTTGACCTACACAGGTGCCATCA

Mutation Spots: A to C

No. 1144

Mutation Spots Location: 29230

Mutation Sequence: CACAGGTGCCATCAAATTGGATGAC

Mutation Spots: C to T

No. 1145

Mutation Spots Location: 29298

Mutation Sequence: ATATTGACGCATACAAAACATTCCC

Mutation Spots: A to T

No. 1146

Mutation Spots Location: 29310

Mutation Sequence: ACAAAACATTCCCACCAACAGAGCC

Mutation Spots: C to T

No. 1147

Mutation Spots Location: 29324

Mutation Sequence: CCAACAGAGCCTAAAAAGGACAAAA

Mutation Spots: A to T

No. 1148

Mutation Spots Location: 29335

Mutation Sequence: TAAAAAGGACAAAAAGAAGAAGGCT

Mutation Spots: A to G

No. 1149

Mutation Spots Location: 29346

Mutation Sequence: AAAAGAAGAAGGCTGATGAAACTCA

Mutation Spots: C to T

No. 1150

Mutation Spots Location: 29349

Mutation Sequence: AGAAGAAGGCTGATGAAACTCAAGC

Mutation Spots: A to G

No. 1151

Mutation Spots Location: 29353

Mutation Sequence: GAAGGCTGATGAAACTCAAGCCTTA

Mutation Spots: A to G

No. 1152

Mutation Spots Location: 29361

Mutation Sequence: ATGAAACTCAAGCCTTACCGCAGAG

Mutation Spots: C to T

No. 1153

Mutation Spots Location: 29363

Mutation Sequence: GAAACTCAAGCCTTACCGCAGAGAC

Mutation Spots: T to G

No. 1154

Mutation Spots Location: 29374

Mutation Sequence: CTTACCGCAGAGACAGAAGAAACAG

Mutation Spots: A to C

No. 1155

Mutation Spots Location: 29384

Mutation Sequence: AGACAGAAGAAACAGCAAACTGTGA

Mutation Spots: C to T

No. 1156

Mutation Spots Location: 29388

Mutation Sequence: AGAAGAAACAGCAAACTGTGACTCT

Mutation Spots: A to G

No. 1157

Mutation Spots Location: 29389

Mutation Sequence: GAAGAAACAGCAAACTGTGACTCTT

Mutation Spots: A to G

No. 1158

Mutation Spots Location: 29425

Mutation Sequence: AGATTTGGATGATTTCTCCAAACAA

Mutation Spots: T to C

No. 1159

Mutation Spots Location: 29426

Mutation Sequence: GATTTGGATGATTTCTCCAAACAAT

Mutation Spots: T to C

No. 1160

Mutation Spots Location: 29463

Mutation Sequence: TGAGCAGTGCTGACTCAACTCAGGC

Mutation Spots: A to G

No. 1161

Mutation Spots Location: 29475

Mutation Sequence: ACTCAACTCAGGCCTAAACTCATGC

Mutation Spots: C to T

No. 1162

Mutation Spots Location: 29521

Mutation Sequence: CTATATAAACGTTTTCGCTTTTCCG

Mutation Spots: T to C

No. 1163

Mutation Spots Location: 29533

Mutation Sequence: TTTCGCTTTTCCGTTTACGATATAT

Mutation Spots: G to A

No. 1164

Mutation Spots Location: 29579

Mutation Sequence: AATTCTCGTAACTACATAGCACAAT

Mutation Spots: T to C