

Gene: MECP2 - Sequence: NG_007107.2
Transcript: NM_001110792.1 - Protein: NP_001104262.1
Date : March 2, 2015

1st line: Base numbering. Full stops for intronic +/- 5, 10, 15...
2nd line: Base sequence. lower case Introns, upper case Exons
3rd line: Amino acid sequence. Printed on FIRST base of codon
4th line: Amino acid numbering. Numbered on 1st and increments of 10

Exon 1 | Start: 44391 | End: 44518 | Length: 127

```

. . . . .
ctaaaccagtcctccgcgccaagccgcctcttttccccaacgacggccgaaagcagc

. . . . .
caatcaacagctggaggggtccgcccccttttccctggccgaaatggacaggaaatctcg

. . . . .
ccaattgacggcatcgccgctgagacctccccctccccctcctccccgtcccagccccg

. . . . .
gccatcacagccaatgacgggcgggctcgcagcggcgccgagggcggggcgcgggcgcgc

. . . . .
aggtgcagcagcgcgcgggcggccaagagggcggggcgcgacgtcggccgtgcggggtc

      |-59      |-49      |-39      |-29      |-19      |-9
CCGGCGTCCGGCGGCGCGCGCTCCCTCCTCTCGGAGAGAGGGCTGTGGTAAAAGCCGTC

      |1      |11      |21      |31      |41      |51
CGGAAAAATGGCCGCCGCCGCCGCCGCCGCGCCGAGCGGAGGAGGAGGAGGCGAGGAG
  M  A  A  A  A  A  A  A  P  S  G  G  G  G  G  G  E  E
      |1                                |11

      |61
GAGAGACTgtgagtgggaccgccgtggccgcgggcggggacccttgccggggggcggggg
E  R  L
      |21

. . . . .
tcaggggcgggacgtggcgcgggaggggcccgcggggtcggacgacacggctggcggatg

. . . . .
gcgtccctcctctctacctccccctcccgccgcgcgggtggcgactctccctcggcc

```

.
cgtcacccgtgctcgcggtgaccgtcctcggcgcggtccctggagccgccttcgcct
.
gacgcccctcttcctcccgccctcgacgcgcacccggcccccgccccgcgggcgccc
. .
tgtcgccg

Exon 3 | Start: 109571 | End: 109921 | Length: 350

.
gccgcagtggttccgctcagaggaaagggctctgattctcctgcagtgctaggagacttg

.
tgggtggccacagtgacaggtcaggcacaccggccagcaccacccacagcccaaattccta

.
aagaaatatttgggtcccagcttggcccagatctctgttgtcctggggaaggacatcaag

.
atctgagtgatatgatggcctggggccttgcatgtggtgggggtccaagcctgcctctgct

.
cacttgttctgcagactggcatgttctctgtgatacttacatacttgtttaacacttcag

| | | | | | |
|--|----|----|-----|-----|-----|
| 71 | 81 | 91 | 101 | 111 | 121 |
| GGAAGAAAAGTCAGAAGACCAGGACCTCCAGGGCCTCAAGGACAAACCCCTCAAGTTTAA | | | | | |
| E | E | K | S | E | D |
| Q | D | L | Q | G | L |
| K | D | K | P | L | K |
| F | K | | | | |
| | | | 31 | | 41 |

| | | | | | |
|--|-----|-----|-----|-----|-----|
| 131 | 141 | 151 | 161 | 171 | 181 |
| AAAGGTGAAGAAAGATAAGAAAGAAGAGAAAGAGGGCAAGCATGAGCCCGTGCAGCCATC | | | | | |
| K | V | K | K | D | K |
| K | E | E | K | E | G |
| K | H | E | P | V | Q |
| P | S | | | | |
| | | | 51 | | 61 |

| | | | | | |
|--|-----|-----|-----|-----|-----|
| 191 | 201 | 211 | 221 | 231 | 241 |
| AGCCCACCACTCTGCTGAGCCCGCAGAGGCAGGCAAAGCAGAGACATCAGAAGGGTCAGG | | | | | |
| A | H | H | S | A | E |
| P | A | E | A | G | K |
| A | E | T | S | E | G |
| S | G | | | | |
| | | | 71 | | 81 |

| | | | | | |
|--|-----|-----|-----|-----|-----|
| 251 | 261 | 271 | 281 | 291 | 301 |
| CTCCGCCCCGGCTGTGCCGGAAGCTTCTGCCTCCCCCAAACAGCGGCGCTCCATCATCCG | | | | | |
| S | A | P | A | V | P |
| E | A | S | A | S | P |
| K | Q | R | R | S | I |
| I | R | | | | |
| | | | 91 | | 101 |

| | | | | | |
|--|-----|-----|-----|-----|-----|
| 311 | 321 | 331 | 341 | 351 | 361 |
| TGACCGGGGACCCATGTATGATGACCCACCTGCCTGAAGGCTGGACACGGAAGCTTAA | | | | | |
| D | R | G | P | M | Y |
| D | D | P | T | L | P |
| E | G | W | T | R | K |
| L | K | | | | |
| | | | 111 | | 121 |

Exon 4 | Start: 110678 | End: 111894 | Length: 1216

.
gttctagatggtgactcaggcccaggcaccaaccagcagaatgggcctcagcctgacaac
.
ccttctgtaccaggcctgactctttggttgctgaactttggagaggcctgggggggtcag
.
cggcaggcagacgagtgagtggctttggtgacaggctcctcaggggcagccaggcagtggtg
.
actctcgttcaatagtaacgtttgtcagagcgttgtcaccaccatccgctctgcccctac
.
tctgacattgctatggagagcctctaattgttccttgtgtctttctgtttgtccccacag

 |421 |431 |441 |451 |461 |471
TCCCCAGGGAAGCCTTTTCGCTCTAAAGTGGAGTTGATTGCGTACTTCGAAAAGGTAGG
P Q G K A F R S K V E L I A Y F E K V G
 |141 |151

 |481 |491 |501 |511 |521 |531
CGACACATCCCTGGACCCTAATGATTTTGACTTCACGGTAACTGGGAGAGGGAGCCCCCTC
D T S L D P N D F D F T V T G R G S P S
 |161 |171

 |541 |551 |561 |571 |581 |591
CCGGCGAGAGCAGAAACCACCTAAGAAGCCCAAATCTCCCAAAGCTCCAGGAACTGGCAG
R R E Q K P P K K P K S P K A P G T G R
 |181 |191

 |601 |611 |621 |631 |641 |651
AGGCCGGGGACGCCCCAAAGGGAGCGGCACCACGAGACCCAAGGCGGCCACGTGAGAGGG
G R G R P K G S G T T R P K A A T S E G
 |201 |211

 |661 |671 |681 |691 |701 |711
TGTGCAGGTGAAAAGGGTCCTGGAGAAAAGTCCTGGGAAGCTCCTTGTCAAGATGCCTTT
V Q V K R V L E K S P G K L L V K M P F
 |221 |231

|721 |731 |741 |751 |761 |771
 TCAAAC TTCGCCAGGGGGCAAGGCTGAGGGGGGTGGGGCCACCACATCCACCCAGGTCAT
 Q T S P G G K A E G G G A T T S T Q V M
 |241 |251

 |781 |791 |801 |811 |821 |831
 GGTGATCAAACGCCCCGGCAGGAAGCGAAAAAGCTGAGGCCGACCCTCAGGCCATTCCCAA
 V I K R P G R K R K A E A D P Q A I P K
 |261 |271

 |841 |851 |861 |871 |881 |891
 GAAACGGGGCCGAAAGCCGGGAGTGTGGTGGCAGCCGCTGCCGCCGAGGCCAAAAAGAA
 K R G R K P G S V V A A A A E A K K K
 |281 |291

 |901 |911 |921 |931 |941 |951
 AGCCGTGAAGGAGTCTTCTATCCGATCTGTGCAGGAGACCGTACTCCCCATCAAGAAGCG
 A V K E S S I R S V Q E T V L P I K K R
 |301 |311

 |961 |971 |981 |991 |1001 |1011
 CAAGACCCGGGAGACGGTCAGCATCGAGGTCAAGGAAGTGGTGAAGCCCCTGCTGGTGTG
 K T R E T V S I E V K E V V K P L L V S
 |321 |331

 |1021 |1031 |1041 |1051 |1061 |1071
 CACCCCTCGGTGAGAAGAGCGGGAAAGGACTGAAGACCTGTAAGAGCCCTGGGCGGAAAAG
 T L G E K S G K G L K T C K S P G R K S
 |341 |351

 |1081 |1091 |1101 |1111 |1121 |1131
 CAAGGAGAGCAGCCCCAAGGGGCGCAGCAGCAGCGCCTCCTACCCCCCAAGAAGGAGCA
 K E S S P K G R S S S A S S P P K K E H
 |361 |371

 |1141 |1151 |1161 |1171 |1181 |1191
 CCACCACCATCACCACCACTCAGAGTCCCCAAAGGCCCCCGTGCCACTGCTCCACCCCT
 H H H H H H S E S P K A P V P L L P P L
 |381 |391

 |1201 |1211 |1221 |1231 |1241 |1251
 GCCCCACCTCCACCTGAGCCCGAGAGCTCCGAGGACCCACCAGCCCCCTGAGCCCCA
 P P P P P E P E S S E D P T S P P E P Q
 |401 |411

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      |1261      |1271      |1281      |1291      |1301      |1311
GGA CTTGAGCAGCAGCGTCTGCAAAGAGGAGAAGATGCCCAGAGGAGGCTCACTGGAGAG
D  L  S  S  S  V  C  K  E  E  K  M  P  R  G  G  S  L  E  S
      |421                      |431

      |1321      |1331      |1341      |1351      |1361      |1371
CGACGGCTGCCCCAAGGAGCCAGCTAAGACTCAGCCCGCGGTTGCCACCGCCGCCACGGC
D  G  C  P  K  E  P  A  K  T  Q  P  A  V  A  T  A  A  T  A
      |441                      |451

      |1381      |1391      |1401      |1411      |1421      |1431
CGCAGAAAAGTACAAACACCGAGGGGAGGGAGAGCGCAAAGACATTGTTTCATCCTCCAT
A  E  K  Y  K  H  R  G  E  G  E  R  K  D  I  V  S  S  S  M
      |461                      |471

      |1441      |1451      |1461      |1471      |1481      |1491
GCCAAGGCCAAACAGAGAGGAGCCTGTGGACAGCCGGACGCCCGTGACCGAGAGAGTTAG
P  R  P  N  R  E  E  P  V  D  S  R  T  P  V  T  E  R  V  S
      |481                      |491

      |*1        |*11        |*21        |*31        |*41        |*51
CTGACTTTACACGGAGCGGATTGCAAAGCAAACCAACAAGAATAAAGGCAGCTGTTGTCT
*

      |*61        |*71        |*81        |*91        |*101       |*111
CTTCTCCTTATGGGTAGGGCTCTGACAAAGCTTCCCGATTAACTGAAATAAAAAATATTT

      |*121       |*131       .       .       .       .       .       .
TTTTTCTTTTCAGTAAActtagagtttcgtggcttcaggggtgggagtagttggagcattg

      .       .       .       .       .       .       .       .
gggatgtttttcttaccgacaagcacagtcaggttgaagacctaaccagggccagaagta

      .       .       .       .       .       .       .       .
gctttgcacttttctaaactaggctccttcaacaaggcttgctgcagatactactgacca

      .       .       .       .       .       .       .       .
gacaagctgttgaccaggcacctcccctcccgcccaaactttcccccattgtggtcgta

      .       .       .       .       .       .       .       .
gagacagagcgacagagcagttgagaggacactcccgttttcggtgccatcagtgccccg

      .       .       .       .
tctacagctccccagc

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LRG Parser: Version: 1.1, Version Date: 11/02/2015
Reader: Version: 1, Version Date: 11/02/2015
Writer: Version: 1, Version Date: 11/02/2015
Control: Version: 1, Version Date: 11/02/2015