

Gene: MECP2 - Sequence: NG\_007107.2  
Transcript: NM\_001110792.1 - Protein: NP\_001104262.1  
Date : February 23, 2015

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

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

```

. . . . .
ctaaaccagtcctccgcgcccagccgcctcttttccccaacgacggccgaaagcagc

. . . . .
caatcaacagctggaggggtccgcccccttttccctggccgaaatggacaggaaatctcg

. . . . .
ccaattgacggcatcgccgctgagacctccccctccccgtcctccccgtcccagcccg

. . . . .
gccatcacagccaatgacggggcgggctcgagcggcgccgagggcggggcgaggcgcgcg

. . . . .
aggtgcagcagcgcgcgggccggccaagagggcggggcgacgtcgccgtgagggtc

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

      |1        |11        |21        |31        |41        |51
CGGAAAAATGGCCGCCGCCGCCGCCGCCGAGCGGAGGAGGAGGAGGAGCGGAGGAG
      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

. . . . .
tcaggggcgggacgtggcgcgggaggggcccgcggggctcggacgacacggctggcggatg

. . . . .
gcgtccctcctctctaccctccccctcccgccgcggtggcgactctccctcggcc

```



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  
 TGACCGGGGACCCATGTATGATGACCCACCCCTGCCTGAAGGCTGGACACGGAAGCTTAA  
 D R G P M Y D D P T L P E G W T R K L K  
 |111 |121

|371 |381 |391 |401 |411 .  
 GCAAAGGAAATCTGGCCGCTCTGCTGGGAAGTATGATGTGTATTTGATCAAgtagtaag  
 Q R K S G R S A G K Y D V Y L I N  
 |131

. . . . .  
 agcaactcctatctctacagggcagggagggcagggacaaggatccctcatgggagcagga  
 . . . . .  
 aaatgtatgtgccaggggtggggtcggggggaacataaacaatgaacactgagaccaggt  
 . . . . .  
 gtgcttgaaatgaccgtgtacagaggtcgctgcctgagtggggaagttctcaaggtagca  
 . . . . .  
 ggccctctatcctctccacacctcaagtctttatctggggatggaatagctgcggaagca  
 . . . . .  
 gaggaacttgagagctaggggttcagaggggtgaagaagcatgtttcagt

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

. . . . .  
 gttctagatggtgactcaggcccaggcaccaaccagcagaatgggcctcagcctgacaac  
 . . . . .  
 ccttctgtaccaggcctgactctttggttgctgaactttggagaggcctgggggggtcag  
 . . . . .  
 cggcaggcagacgagtgagtggttggtgacaggtcctcaggggcagccaggcagtggtg  
 . . . . .  
 actctcgttcaatagtaacgtttgtcagagcgttggtcaccaccatccgctctgccctatc  
 . . . . .  
 tctgacattgctatggagagcctctaattgttccttggtgtctttctgtttgtccccacag

421	431	441	451	461	471
TCCCCAGGGAAAAGCCTTTCGCTCTAAAGTGGAGTTGATTGCGTACTTCGAAAAGGTAGG					
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
CGACACATCCCTGGACCCTAATGATTTTGAAGTTCACGGTAACTGGGAGAGGGAGCCCCTC					
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
CCGGCGAGAGCAGAAAACACCTAAGAAGCCCAATCTCCCAAAGCTCCAGGAACTGGCAG					
R	R	E	Q	K	P
P	P	K	K	P	K
S	P	K	A	P	G
T	G	R			
181			191		

  

601	611	621	631	641	651
AGGCCGGGACGCCCCAAAGGGAGCGGCACCACGAGACCCAAGCGGCCACGTCAGAGGG					
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
TCAAAGTTCGCCAGGGGGCAAGGCTGAGGGGGTGGGGCCACCACATCCACCCAGGTCAT					
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
GGTGATCAAACGCCCCGGCAGGAAGCGAAAAGCTGAGGCCGACCCTCAGGCCATTCCCAA					
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
GAAACGGGGCCGAAAAGCCGGGGAGTGTGGTGGCAGCCGCTGCCGCCGAGGCCAAAAAGAA					
K	R	G	R	K	P
G	S	V	V	A	A
A	A	A	A	E	A
K	K	K			
281			291		

  

901	911	921	931	941	951
AGCCGTGAAGGAGTCTTCTATCCGATCTGTGCAGGAGACCGTACTCCCATCAAGAAGCG					
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
CAAGACCCGGGAGACGGTCAGCATCGAGGTCAAGGAAGTGGTGAAGCCCCTGCTGGTGTC					
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
CACCCCTCGGTGAGAAGAGCGGGAAGGACTGAAGACCTGTAAGAGCCCTGGGCGGAAAAG					
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
CAAGGAGAGCAGCCCCAAGGGGCGCAGCAGCAGCGCCTCCTCACCCCCAAGAAGGAGCA					
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
CCACCACCATCACCACCACTCAGAGTCCCCAAAGGCCCCCGTGCCACTGCTCCCACCCCT					
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
GCCCCACCTCCACCTGAGCCCAGAGCTCCGAGGACCCACCAGCCCCCTGAGCCCCA					
P P P P P E P E S S E D P T S P P E P Q					
401			411		
1261	1271	1281	1291	1301	1311
GGA CTTGAGCAGCAGCGTCTGCAAAGAGGAGAAGATGCCAGAGGAGGCTCACTGGAGAG					
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
CGACGGCTGCCCCAAGGAGCCAGCTAAGACTCAGCCGCGGTTGCCACGCGCCACGGC					
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
GCCAAGGCCAAACAGAGAGGAGCCTGTGGACAGCCGACGCCCCTGACCGAGAGAGTTAG					
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       .       .       .       .       .       .  
TTTTTCTTTCAGTAAActtagagtttcgtggcttcagggtgggagtagttggagcattg

.       .       .       .       .       .       .       .       .  
gggatgtttttcttaccgacaagcacagtcaggttgaagacctaaccagggccagaagta

.       .       .       .       .       .       .       .       .  
gctttgcacttttctaaactaggctccttcaacaaggcttgctgcagatactactgacca

.       .       .       .       .       .       .       .       .  
gacaagctgttgaccaggcacctcccctcccgcccaaacctttcccccattgtggtcgta

.       .       .       .       .       .       .       .       .  
gagacagagcgacagagcagttgagaggacactcccgttttcggtgccatcagtgccccg

.       .       .       .  
tctacagctccccagc

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