

## Product datasheet for **RN214641**

### **Edc4 (NM\_001033068) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Edc4 (NM\_001033068) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Edc4  
**Synonyms:** LRRG00115; Nrn1l; RGD1309136  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214641 representing NM\_001033068  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCTGCGGAGCATCGACATTGAGGACGCCACGCAGCATCTGCGGGACATCTCAAACCTGGACC  
GGCCCGCGGAGGCTCCAATGTCGAAAGCCAAAGGCCATCCAGTGCCTACAATGGAGACCTCAATGGCT  
CCTGGTCCAGATCCGCTCAGTTCAGGAGATGGTAACTCGACAAGCAAACCTGGTATACGGACCATGCCA  
CCATTAACTGTCAGGAAAAGCAGGTCAATTCGCTCTCTGGAGATGACAGCTCCACGTGCATTGGGATTT  
TGGCCAAGGAGGTAGAAATTGTGGCCAGCAGTGATTCTAGCATTTCAGCAAGGCCGCGAGGGAGCAACA  
GGTGAATAATCCAGCCTGTAGCCAAGTATGACTGGGAGCAGAAATACTACTATGGCAACCTGATTGCAGTG  
TCTAACTCCTTCTTGGCATACGCCATCAGGGCTGCCAACAATGGCTCAGCCATGGTCCGAGTGATCAGTG  
TGAGCACTTCGGAGCGGACCCCTGCTCAAGGGCTTACAGGCAGTGTGGCTGACCTTGCAATTTGCACACCT  
CAACTCTCCACAGCTTGCTGCTGGACGAGGCCGCGCATCTCTTGTGTGGCGACTGGCTCTGGTTAAG  
GGCAAAATCAAGAAGAGATCTTAGTCCATATCCGGCAACCAGAGGGCACACCACTGAACCACTCCGAA  
GGATCATCTGGTGCCCTTTCATCCCTGAGGAAAGCGAGGACTGTTGTGAGGAGAGTAGCCCAACGGTGGC  
CCTGCTGCATGAAGACCGGGCTGAGGTGTGGACTTGGATATGCTTCGCTCCAGCCACAGCACATGGCCT  
GTGGATGTCAGCCAAATCAAGCAGGGCTTTATCGTGGTAAAAGGCCATAGCACGTGCCTAAGTGAAGGAG  
CCCTTTCCCTGATGGGACTGTGCTGGCCACCGAAGCCATGATGGCTTTGTCAAGTTCTGGCAGATCTA  
TATTGAAGGTCAGGATGAGCCAAGGTGTCTGCATGAATGGAAACCTCATGATGGGCGGCCTTTTCTTGC  
CTCCTGTTCTGTGATAACCATAAGAAACAGGATCCTGAGGTCCCATTCTGGAGGTTCTCATTACTGGCG  
CTGACCAGAATCGAGAGCTGAAGATGTGGTGCACAGTGTCTGGACCTGCCTGCAAACCTTCGCTTCTC  
CCCAGATATCTTCAGTTCAGTGAGTGTGCTCCCAGTCTCAAAGTTTGTGGACCTCTCAGCAGAATAT  
TTGATTCTTAGTGATGTGCAACGAAAGGTCTCTATGTGATGGAGCTGCTGCAGAACCAGGACGAGGGCC  
GTGCTTGCTTCAGTTCATCTCTGAGTTCCTGCTCACCCACCCTGTGCTGAGCTTTGGCATCCAGGTTGT  
GAGTCGCTGCCGGCTGCCGCACACTGAGGTGCTGCTGCTGAGGAGGAGAGTGACAGTCTGGGGACTGAG  
AGTTCCATGGAGCTGGTACCTTGAATCTGCAGCTGGTGTGCTTATCAAGCTCTTTTGTGTGCACACTA



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AGGCACTCCAAGATGTGCAGATCCGCTTCCAGCCACAGCTGAACCCTGATGTGGTGGCCCCACTCTCTAC  
 CCACACTGCTCATGAGGACTTCACATTTGGAGAGTCTCGACCTGAACTAGGCTCTGAGGGCTAGCTTCA  
 GCTCCTCATGGTTCCCAGCCTGACCTCCGACGCATTGTGGAGTGCCTGCACCTGCAGACTTCTCAGTC  
 TGAGCAGTGAGACCAAGCCTAAGTTGATGACACCTGATGCTTTCATGACACCTACCGCTCCCTGCAGCA  
 GATCTCTGCATCCCCTAGTAGTAGCAGCAGCAGTAGCAGCAGCAGCAGTAGCAGCAGCAGCAGTAGCAGC  
 AGCAGCTCTCTAACAGCTGTGTCTGCTGTGAGCAGCTCCTCAGCCATGGACCCCTCCTTGCCAGTAGGC  
 CACCCGAGGAAGCTGACCTTGAGCCCAAACTGCAGCTAGATGGCAGCCTGACTATAAGCAGCAGCAGCAG  
 CCTGCAGGCAAGCCCTCGGAGCCTTCTCCGGGCTGCTCCAGGCCAGCTGACAAACTAATCCCAAG  
 GGACCTGGTCAGGTATCTTCTGGTACTTCTGCACTATCCTTGGATTTGCAGGAAGTGAACCATTAGGGC  
 TACCCAGGCCTCCCAAGTCGCACACGTTCTCCTGATGTGATCTCCTCAGCATCCACTGCCCTGTCCCA  
 GGACATCCCTGAAATTGCATCTGAGGCCCTGTCCCGTGGCTTTGGCTCCTCTGTACTGAGGGCCTCATT  
 GAGCCAGACAGCATGGCCTCAGCTGCCTCAGCACTACACCTACTGTCTCCTCGGCCAGGCAAGGCCCTG  
 AGCTTAGTTCTCAGCTTGGTCTAGATGGAGGCCCTGGGGATGGGATAGGCATAGTACCCCTTCCCTACT  
 GGAAGCAGCCTTGACCCAGGAAGTTGCAACCTCTGACAGTCAAGTCTGGCCTACAGCACCTGACATTACT  
 CGTGAGACCTGTAGCACACTAACAGAAAGCCCCAGGAATGGCCTCCAGGAAAAGCAGAAAAGCCTGGCCT  
 TCCACAGGCCACCTTATACCTGCTGCAGCAACATGACAGTCAAGGACACAAGTGCTGAGCAAAGTGACCA  
 TGACGATGAGGTTGCCAGCCTTGCTCTGCTTCCAGGAGTTTTGGCAGCAAAAATCCTACTCCACGGCTG  
 CCTGCCAAGGATTGAAAACCAAGGGATCCCTAGGACTTACCTAAGCTCAAGAGGAAAAGCAAGAAGG  
 ATGATGGGGATTAGCTGTGGGATCTCGGCTCACCGAGCACAGGTGGTAGAGCCCCCTGAAGACTGGCC  
 AGCACTAATTTGGCAGCAGCAAAGAGAGCTGGCAGAACTATGGCACAACCAAGAAGAGCTGTACAGCGT  
 CTTTGTGCCAACTTGAAGGCTTCAGAGCACTGTACAGACCATGTAGAAGCTGCCCTGGAGACACGGC  
 ATGAGCAAGAGCAACGGGACTGGAGCGGGCACTGGCTGAGGGGAGCAACGGGGTGGCAGCTACAGGA  
 GCAGCTGACACAGCAGCTATCCAGGCTTTGTCTTCCAGCTGTGGCTGGGCGCTAGAGCGCAGCATAAAG  
 GATGAAAATCAAGAAAACAGTTCCTCCATGTGTCTCCAGAAGTCTGGAGCCTGTGGCAGGCCAACTAAGCA  
 ACTCAGTGGCTACCAAGCTTACAGCTGTGGAAGGCAGCATGAAAGAGAATATCTTAAGCTACTCAAGTC  
 CAAGAACTTAACAGATGCCATTGCCCGCAGCTGCAGATACGCTACAGGGACCAATGCAGGCTGCCTAC  
 CGAGAAGCCTTCCAGAGTGTGGTGTGCTGCCGGCTTTTGAAGAGTTGTGAGGCTATGTTCCAGCAATCA  
 ATGACAGCTTCCAGGCTGGGCACTCAGGAATATTTGCAGCAGCTGGACAGTACATGAAGAGCCGAAAGGC  
 ACGTGAACAAGAAGCTAGGGAGCCTGTGTGGCCAGCTTCGGGGCTGGTCCAGCACTGCAGAATGCC  
 ACTGAGCAGATGGCAGCCACTGTGTCTAGCAGTGTTCGGGCGAGGTGCAACACCAGCTGCATGTGGCTG  
 TGGGCAGCTTGCAGGAATCAATCTTAGCACAAGTACAACGCATTGTCAAGGGTGAAGTGTGTGGCACT  
 GAAGGAGCAGCAGGCCACTGTCACTTCCAGCATCATGCAGGCTATGCGCTCAGCTGCTGGCACACCTGTC  
 CCCTCTGCCACCTTGACTGCCAGGCCCAACAAGCCCATATCTTGCAGTACTGCAGCAGGGCCACCTCA  
 ATCAGGCCTTCCAGCAGGCTCTGACTGTGCTGATCTCAACCTGGTGTGTATGTGTGTGAAACTGTGGA  
 CCCAGCCAGGTTTTTGGCAGCCGCCCTGTCCACTGTCCAGCCCGTTCTCCTTCCCTAATCCAGCAG  
 CTAGCATCTGACCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
 ACCACAGCGATCCCATCACTCGAGACCACATGGGCTCTGTATGGCTCAGGTGCGCCAGAAGCTCTTCCA  
 GTTCTGCAGGCTGATCCACAACTCACTTGGCAAAGCTGCCCGCCCTCAGCCTAATGTTACACGGC  
 CTTGTGACCCCTAGCCTCCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_001033068

**Insert Size:**

4224 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u>NM_001033068.3</u> , <u>NP_001028240.3</u>
<b>RefSeq Size:</b>	4741 bp
<b>RefSeq ORF:</b>	4224 bp
<b>Locus ID:</b>	361399
<b>UniProt ID:</b>	<u>Q3ZAV8</u>
<b>Cytogenetics:</b>	19q12
<b>Gene Summary:</b>	In the process of mRNA degradation, seems to play a role in mRNA decapping. Component of a complex containing DCP2 and DCP1A which functions in decapping of ARE-containing mRNAs. Promotes complex formation between DCP1A and DCP2. Enhances the catalytic activity of DCP2 (in vitro).[UniProtKB/Swiss-Prot Function]