

Product datasheet for **MC223803**

Nrde2 (NM_183155) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nrde2 (NM_183155) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nrde2
Synonyms: 6720454P05Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223803 representing NM_183155
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGCTGTTCCCGGCTTTTGC GGACGTAAGTGAGGCCTCCGGTGATGGGGCATT CAGGAAAGAGTTAG
 ATGGCTGAGCAACCCAAGCTTTCGTGTGGAAATCTAACTTCTCTGAGCCGACAACTGAAGAGGTAC
 AGCCCTTGCTTCTGAAGGTCACCACCAGGAGTCTCTGAAGTCAGAGCTCTCAGGTGAGAGCAAC
 ACTAGCGAGAAGCTCGCACAGACAAGCAGGAAGAAGAAGAGAGAAAAAGAAGAGACGGAAGCATCAGC
 ACCACAGGAAAACCAAGAGGAGGCACGAGCAGTTGAGCAGCAGCGGCTCTGAGTCAGACACAGAGGCTGG
 GAAGGACAGGGCTTCCCGGAGCATCAGGGACGACCAGAAGGAAGCCGAGAAAACCTGTCAGGGAAGCAAT
 GCGGCTGCTGCTGTTGCTGCTGCTGGACATCGGTCCATTTGGCTGGAAGATATTCACGATCTGACCG
 ACGTCTCAGGACTGATAAGAAGCCAGATCCTGCCAAGTGGGAGTATAAATCTCTGTATCGTGGGATAT
 AGCAAGGTACAAGAGGAAGGGAGACTCCTGCCTGGGTATCAATCCTAAGAAACAGTGTATATCTTGGGAA
 GGGCTTCTGCAGCAAAGAAGCACTCACACAGGCACCTGGAGCGCTATTTTACCAAGAAGATGTGGGGT
 TAATGAGAACAGAGGGCATTGCTGTGTGCAGTAACCCGAGCCTGCCTCCTCGAGCCGTCACATTCAT
 CCCAGTGAAGGACTCTGCTGAGGCAGCTACTCCTGTTACATCATGGCTGAATCCTCTGGGGATTTATGAT
 CAGTCTACCACACAGTGGTTACAAGGACAGGGTCCAGCAGAGCAAGAGTCAAAGCAGCCGGACTCGCAAC
 AGGACAGGGAGAATGCTGCTCTCAAGGCCAGAGTGGAAGAGTTTAAACAGAAGGGTTCCGGGAGAATCCTTG
 GGACACGCAACTATGGATGGCGTTTGTGGCTTCCAGGACGAGGTGATGAGGAGTCTGGCATCTATGCC
 CTTGGGGAAGGAGAACAGGAGAAGCACAGGAAGTCCCTGAAGCTCCTCTGGAGAAGAAGCTGGCTGTGC
 TGGAGCGGGCCATCGAGAGCAACCCAGGCAGCTGGAGCTGAAGCTTGCCAAGCTGCAGCTGTGCTCAGA
 GTTCTGGGAGCCAGTGCCTGGCCAAGGAGTGGCAGAAGCTCCTCTTCTGCACCCCAACAACAAGC
 CTGTGGCAGCGCTATCTCTCTTTTCCAGAGCCAGTTTGGTACCTTTTCTGTGTCCAACTCCACAGTC
 TGTATGGCAAGTGCTTGAAGTACCTTGTCTGCTGTTAAAGATGGCAGCATGCTATCCCACCTGTGTGGC
 GGGCACCGAGGAGCCATGTTTGGGCTCTTTCTCAGCAGTGCCACTTTCTACGGCAGGCTGGCCACTCA
 GAGAAGGTCATCTCTTTGTTCCAGGCCATGTTGACTTCACTTCTTCAAGCCTGACAGTGTGAAAGAGC



TGCCTACTAAAGTACAGGTGGAATTCTTTGAGCCCTTCTGGGACAGCGGAGAACCACGCCTTGGGGAGAA
 GGGAGCCCAGGCTGGCGGGCGTGGATGCACCAACAGGAGCGAGGTGGCTGGGTGCTCATCACCCAGAT
 GAGGATGACGAGGAGCCCGAAGAGGAGGACCAGGAGATAAAAGACAAGACCCTGCCCCGGTGGCAGATCT
 GGCTTGCTGTTGAGCGTTCTCGAGACCAGAGGCACTGGCGTCCCTGGCGCCCTGATAAGACCAAGAAGCA
 AACGGAGGAAGACTGTGAGGACCCTGAGAGACAGGTGCTGTTTATGACATTGGGCAATCTTTGATCAGA
 CTTTCCAGCCCAGACCTTCAGTTCAGCTCATCCAGGCCTTTCTGCAGTTCCTGGGCGTGCCTCCGGCT
 TCCTGCCCCAGCCTCCTGCCTTACCTGGCCATGGACGAGAGCAGCATCTTTGAGAGTGAATTTATGA
 TGAAGGCCCTGACTTACTTCAACCCTTCTTTTCGGGCATTAGCTGTGTCGGCTCCATGGAACAGTTG
 GGTCGCCCTCGCTGGACCAAAGGTCACAACCGAGAGGGCGAGGAGTTTGTCCGCAATGTCTTCCACCTGG
 TGCTGCCTTTGCTCGCAGGCAAGCAGAAGTCCCAGCTCAGCCTCTCCTGGTTACGGTACGAGATTGCAAA
 GGTCATTTGGTGTCTACACACTAAAAAGAAGCGATTGAAGTCTCAGGAAAGAGCTGCAAAAACTAGCC
 AAGAATCTCTCAAGGAGCCAGAAAACCGCAACAATTCTGCCTCTGGAAGCAGTATGCACACCTGGAGT
 GGTTGCTCGGTAACACAGAGGATGCCAGAAAAGTTCGACACAGCACTCAGCATGGCAGGCAGCAGCGA
 GCTGAAGGACCGTGAACCTGCGAGCTCAGTCTGCTCTATGCCGAGCTGGAGATGGAAGTGTCCCGGAC
 TCGAGAGGAGCCACCACAGGCCGAGCGTCCACATATTAACACGGCTGACGGAGAGCAGTCCCTACGGGC
 CCTACAGGGGACAGTCTCGTCCACCCAGGTGCTGAAAGCTCGGAAGGCTTACGAGCTCGCGCTGCAGGA
 CTGCCTGGCCAGAGCTGTGCCTCCAGCCCAGCTCCTGCAGAGGCCTTGACTGCCTGGGTAGCTTGGTC
 CGATGCTTTATGCTCTTCCAGTATTTGACTGTGGGCATTGATGCTGCTGTGCAGATATACGGAAGGGTGT
 TTGCCAAGCTGAAGGGCTCTGCTCGCTTAGAAGACCCAGGGCCAGAGGACAGCACCAGCTCCCAGAGTTT
 GACCAATGTGCTCGAGGCTGTCAGCATGATGCACACAAGCCTGCTGCGATTCCACATGAACGTTTGTGTT
 TACCCTCTGGCTCCACTCCGAGAGACCCTCTCCGATGCTTTAAAGCTGTATCCGGGAACCCAGGTTCTTT
 GGAGGGCTTATGTACAGATTAGAATAAGTCCCACAGTGTAAACAAGACCAGAAGGTTCTTTGACACAGT
 TACTAGGCTGCCAAACATTTGGAGCCTTGGCTATTTGCAATCGAAGCTGAGAAGCTGAGGAAAAAGCTA
 GTGGAATCTGTTCAAGAGGTAGGAGGCAGAGAGTCCATGCAACAATCCCCGAGACTGGCCTTACGCATC
 GCATCAGAGCTTTGTTTAAAAATGCGATTTCGGAGCGACAAGGGCAACCAGTGTCCCTACTGTGGAGGAT
 GTATTTGAATTTTTTGGTTTCTTAGGAAACAAAGAAAGAAAGCAAGGGCGTGTCTACAAGGCCCTCCAG
 AGCTGTCTTGGGCAAAGGTGCTATACATGGACGCCATGGAGTATTTCCAGACGAGCTGCAGGAGATCC
 TGGACGTGATGACCGAGAAGGAGCTCCGTGTGCGCCTGCCCTTGAGGAGCTGGAGCTGCTGCTGGAGGA
 TAG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-RsrII

ACCN:

NM_183155

Insert Size:

3504 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).

Components:

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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_183155.3](#), [NP_898978.2](#)

RefSeq Size: 3710 bp

RefSeq ORF: 3504 bp

Locus ID: 217827

Cytogenetics: 12 E

Gene Summary: Protein of the nuclear speckles that regulates RNA degradation and export from the nucleus through its interaction with MTREX an essential factor directing various RNAs to exosomal degradation. Changes the conformation of MTREX, precluding its association with the nuclear exosome and interaction with proteins required for its function in RNA exosomal degradation. Negatively regulates, for instance, the degradation of mRNAs and lncRNAs by inhibiting their MTREX-mediated recruitment to nuclear exosome. By preventing the degradation of RNAs in the nucleus, it promotes their export to the cytoplasm.

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform a. The exon combination of this variant is inferred based on tiled partial transcript alignments.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.