

Product datasheet for **MC229441**

Nrde2 (NM_001290303) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrde2 (NM_001290303) 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:	>MC229441 representing NM_001290303 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGGCGCTGTTCCCGGCTTTTGC GGACGTAAGTGAGGCCTCCGGTGATGGGGCATT CAGGAAAGAGTTAG
ATTGGCTGAGCAACCCAAGCTTTCGTGTTGAAATCTAACTTCTCTGAGCCGACAACTGAAGAGGTCAC
AGCCCTTGCTTCTGAAGGTCACCACCGCCAAGTACTCTTTTATCAGGAGTCCCTCTGAAGTCAGAGCTC
TCAGGTGAGAGCAACTAGCGAGAAGCTCGCACAGACAAGCAGGAAGAAGAAGGAGAAAAAGAAGA
GACGGAAGCATCAGCACACAGGAAAACCAAGAGGAGGCACGAGCAGTTGAGCAGCAGCGGCTCTGAGTC
AGACACAGAGGCTGGGAAGGACAGGGCTTCCCGGAGCATCAGGGACGACCAGAAGGAAGCCGAGAAACCC
TGTCAGGGAAGCAATGCGGCTGCTGCTGTTGCTGCTGCTGCTGGACATCGGTCCATTTGGCTGGAAGATA
TTCACGATCTGACCGACGCTTTCAGGACTGATAAGAAGCCAGATCCTGCCAAGTGGGAGTATAAATCTCT
GTATCGTGGGGATATAGCAAGGTACAAGAGGAAGGGAGACTCCTGCCTGGGTATCAATCCTAAGAAACAG
TGTATATCTTGGGAAGGGCTTCTGCAGCAAAGAAGCACTCACACAGGCACCTGGAGCGCTATTTTACCA
AGAAGAATGTGGGTTAATGAGAACAGAGGGCATTGCTGTGTGCAGTAACCCCGAGCCTGCCTCCTCCGA
GCCCGTACATTCATCCAGTGAAGGACTCTGCTGAGGCAGCTACTCCTGTTACATCATGGCTGAATCCT
CTGGGGATTTATGATCAGTCTACCACACAGTGGTTACAAGGACAGGGTCCAGCAGAGCAAGAGTCAAAGC
AGCCGGACTCGCAACAGGACAGGGAGAATGCTGCTCTCAAGGCCAGAGTGAAGAGTTTAAACAGAAGGGT
TCGGGAGAATCCTTGGGACACGCAACTATGGATGGCGTTTGTGGCTTTCAGGACGAGGTCATGAGGAGT
CCTGGCATCTATGCCCTTGGGAAGGAGAACAGGAGAAGCACAGGAAGTCCCTGAAGCTCCTCCTGGAGA
AGAAGCTGGCTGTGCTGGAGCGGGCCATCGAGAGCAACCCAGGCAGCGTGGAGCTGAAGCTTGCCAAGCT
GCAGCTGTGCTCAGAGTTCTGGGAGCCAGTGCCTGGCCAAGGAGTGGCAGAAGCTCCTCTTCTGCAC
CCCAACAACACAAGCCTGTGGCAGCGCTATCTCTCTTTTCCAGAGCCAGTTTGGTACCTTTTCTGTGT
CCAAATCCACAGTCTGTATGGCAAGTCTTGAGTACCTTGCTGCTGTTAAAGATGGCAGCATGCTATC
CCACCCTGTGTTGCCGGGCACCGAGGAGCCATGTTTGGGCTCTTTCTTTCAGCAGTGCCACTTTCTACGG
CAGGCTGGCCACTCAGAGAAGGTCATCTCTTTGTTCCAGGCCATGGTTGACTTACCTTCTTCAAGCCTG



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ACAGTGTGAAAGAGCTGCCTACTAAAGTACAGGTGGAATTCCTTTGAGCCCTTCTGGGACAGCGGAGAACC
 ACGCGTTGGGGAGAAGGGAGCCCGAGGCTGGCGGGCGTGGATGCACCAACAGGAGCGAGGTGGCTGGGTG
 CTCATCACCCAGATGAGGATGACGAGGAGCCCGAAGAGGAGGACCAGGAGATAAAAGACAAGACCCTGC
 CCCGGTGGCAGATCTGGCTTGTGTTGAGCGTTCTCGAGACCAGAGGCACTGGCGTCCCTGGCGCCCTGA
 TAAGACCAAGAAGCAAACGGAGGAAGACTGTGAGGACCCTGAGAGACAGGTGCTGTTTATGACATTGGG
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 GCGTGCCTCCGGCTTCTGCCCCAGCCTCCTGCCTTACCTGGCCATGGACGAGAGCAGCATCTTTGA
 GAGTGAACCTTTATGATGAAAAGCCCTGACTTACTTCAACCCTCCTTTTCGGGCATTAGCTGTGTCGGC
 TCCATGGAACAGTTGGGTCGCCCTCGCTGGACCAAGGTCAACAACCGAGAGGGCGAGGAGTTTGTCCGCA
 ATGTCTTCCACCTGGTGTGCCTTGTCTCGCAGGCAAGCAGAAGTCCCAGCTCAGCCTCCTCTGTTTACG
 GTACGAGATTGCAAAGGTCATTTGGTGTCTACACACTAAAAAGAAGCGATTGAAGTCTCAGGAAAGAGC
 TGCAAAAAACTAGCCAAGAATCTCCTCAAGGAGCCAGAAAACCGCAACAACCTTCTGCCTCTGGAAGCAGT
 ATGCACACCTGGAGTGGTTGCTCGTAACACAGAGGATGCCAGAAAAGTGTTCGACACAGCACTCAGCAT
 GGCAGGACGACGAGCTGAAGGACCGTGAACCTCTGCGAGCTCAGTCTGCTCTATGCCGAGCTGGAGATG
 GAACTGTCCGGGACTCGAGAGGAGCCACCACAGGCCGAGCGGTCCACATATTAACACGGCTGACGGAGA
 GCACTCCTACGGGCCCTACACGGGGCAGGTCTCGTCCACCCAGGTGCTGAAAGCTCGGAAGGCTTACGA
 GCTCGCGCTGCAGGACTGCCTGGGCCAGAGCTGTGCCTCCAGCCAGCTCCTGCAGAGGCCCTGGACTGC
 CTGGGTAGCTTGGTCCGATGCTTTATGCTCTTCCAGTATTTGACTGTGGGCATTGATGCTGTGTGCAGA
 TATACGGAAGGGTGTTCGCAAGCTGAAGGGCTCTGCTCGCTTAGAAGACCCAGGGCCAGAGGACAGCAC
 CAGCTCCCAGAGTTTGACCAATGTGCTCGAGGCTGTGAGCATGATGCACACAAGCCTGCTGCGATTCCAC
 ATGAACGTTTGTGTTTACCCTCTGGCTCCACTCCGAGAGACCCTCCTCCGATGCTTTAAAGCTGTATCCGG
 GCAACCAAGTCTTTGGAGGGCTTATGTACAGATTGAGAATAAGTCCCACAGTGTGCTAACAAGACCAGAAG
 GTTCTTTGACACAGTACTAGGCTGCCAAACATTTGGAGCCTTGGCTATTTGCAATCGAAGCTGAGAAG
 CTGAGGAAAAAGCTAGTGAATCTGTTTCAGAGGGTAGGAGGCAGAGAGGTCCATGCAACAATCCCGGAGA
 CTGGCCTTACGCATCGCATCAGAGCTTTGTTTGAATAATGCGATTTCGGAGCGACAAGGGCAACAGTGTCC
 CCTACTGTGGAGGATGTATTTGAATTTTTTGGTTTCTTAGGAAACAAAGAAAGAAGCAAGGCGTGTTC
 TACAAGGCCCTCCAGAGCTGTCTTGGGCAAAGGTGCTATACATGGACGCCATGGAGTATTTCCAGAGC
 AGCTGCAGGAGATCCTGGACGTGATGACCGAGAAGGAGCTCCGTGTGCGCTGCCCTTGAGGAGCTGGA
 GCTGCTGCTGGAGGATTAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_001290303
- Insert Size:** 3519 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001290303.1](#), [NP_001277232.1](#)

RefSeq Size: 3725 bp

RefSeq ORF: 3519 bp

Locus ID: 217827

UniProt ID: [Q80XC6](#)

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 (1) represents the longer transcript and encodes the longer 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. CCDS Note: The exon combination of this CCDS representation is inferred due to a lack of full-length transcript support for this gene. It is supported by tiled partial transcript alignments.