

Product datasheet for **SC304549**

NRDE2 (NM_017970) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRDE2 (NM_017970) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRDE2
Synonyms:	C14orf102
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304549 representing NM_017970. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCTGTTCCAGCCTTTGCGGGGCTTAGTGAGGCTCCCGATGGCGGGAGCTCCAGGAAAGAGTTA
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GTGAAAGATCTGCCTACCAAAGGACAGGTGGAATTCCTTTGAACCCCTTTGGGACAGTGGAGAGCCCCGG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
    
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_017970
- Insert Size:** 3495 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_017970.3](#)

RefSeq Size: 4026 bp

RefSeq ORF: 3495 bp

Locus ID: 55051

UniProt ID: [Q9H7Z3](#)

Cytogenetics: 14q32.11

MW: 132.7 kDa

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 (PubMed:30842217). Changes the conformation of MTREX, precluding its association with the nuclear exosome and interaction with proteins required for its function in RNA exosomal degradation (PubMed:30842217). Negatively regulates, for instance, the degradation of mRNAs and lncRNAs by inhibiting their MTREX-mediated recruitment to nuclear exosome (PubMed:30842217). By preventing the degradation of RNAs in the nucleus, it promotes their export to the cytoplasm (PubMed:30842217).[UniProtKB/Swiss-Prot Function]