

Product datasheet for **SC128176**

EXD2 (NM_018199) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXD2 (NM_018199) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXD2
Synonyms:	C14orf114; EXDL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC128176 sequence for NM_018199 edited (data generated by NextGen Sequencing)

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ATGGCCTCCCAAGTGGCCTGTGTGTCTTGGTTCGCCTGCCCAAGCTAATCTGTGGAGGA
AAAACACTACCAAGAACGTTATTGGATATTTGGCAGATGGCACCATTTGAAAGTTGGA
GTGGGATGCTCAGAAGATGCCAGCAAGCTTCTGCAGGATTATGGCCTCGTTGTTAGGGGG
TGCCTGGACCTCCGATACCTAGCCATGCGGCAGAGAAACAATTTGCTCTGTAATGGGCTT
AGCCTGAAGTCCCTCGCTGAGACTGTTTTGAACTTTCCCCTTGACAAGTCCCTTCTACTT
CGTTGCAGCAACTGGGATGCTGAGACTCTCACAGAGACCAGGTAATTTATGCTGCCAGG
GATGCCCAGATTTTCAGTGGCTCTCTTTCTCATCTTCTTGATACCCCTTCTCTAGGAAT
TCACCTGGAGAAAAAACGATGACCACAGTAGCTGGAGAAAAGTCTTGAAAAATGCCAG
GGTGTGGTCGACATCCCATTTGAAAGCAAAGGAATGAGCAGATTGGGAGAAGAGGTTAAT
GGGGAAGCAACAGAATCTCAGCAGAAGCCAAGAAATAAGAAGTCTAAGATGGATGGGATG
GTGCCAGGCAACCACCAAGGGAGAGACCCAGAAAACATAAAAGAAAGCCTCTGGGGTG
GGCTATTCTGCCAGAAAATCACCTTTTATGATAACTGCTTCTCCATGCTCCTGATGGA
CAGCCCCCTGCACTTGTGATAGAAGAAAAGCTCAGTGGTACCTGGACAAAGGCATTGGT
GAGCTGGTGAGTGAAGAGCCCTTTGTGGTGAAGCTACGGTTTGAACCTGCAGGAAGGCC
GAATCTCCTGGAGACTATTACTTGATGGTTAAAGAGAACCTGTGTGTAGTGTGGCAAG
AGAGACTCCTACATTCGGAAGAACGTGATTCCACATGAGTACCGGAAGCACTTCCCATC
GAGATGAAGGACCACAACCTCCCAGATGTGCTGCTGCTGCACTCCTGCCATGCCATT
TCCAACACTATGACAACCATCTGAAGCAGCAGCTGGCCAAGGAGTTCAGGCCCCCATC
GGCTCTGAGGAGGGCTTGCCTGCTGGAAGATCCTGAGCGCCGGCAGGTGCGTTCTGGG
GCCAGGGCCCTGCTCAACGCGGAGAGCCTGCCTACTCAGCGAAAGGAGGAGCTGCTGCA
GCACTCAGAGAGTTTTATAACACAGACGTGGTCCACAGAGGAGATGCTTCAAGAGGCTGCC
AGCCTGGAGACCAGAATCTCCAATGAAAACATATGTTCTCACGGGCTGAAGGTGGTGCAG
TGTACAGCCAGGTGGCTGCGCTCCCTCATGCAGCTGGAGAGCCGCTGGCGTCAGCAC
TTCCTGGACTCCATGCAGCCAAGCACCTGCCCCAGCAGTGGTACGTGGACCACAACCAT
CAGAAGCTGCTCCGAAATTCGGGAAGATCTTCCCATCCAGCTGTCTTGA
    
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Clone variation with respect to NM_018199.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_018199 unedited
ACGACTCACTATAGGGCGGCCGGAATTCGGCAGCAGGGCCTCGTGCCGAATTCGGCACGA
GGATCAAATCGAGCCCTTGCTTAGAAGTGAATTAGAAGATTTTCCAGTACTTGAATTGA
CTGTGAGTGGGTAATTTGGAAGGCAAAGCCAGCCCTCTGTCACTTCTACAAATGGCCTC
CCCAAGTGGCCTGTGTGCTTGGTTCGCCTGCCAAGCTAATCTGTGGAGAAAAACACT
ACCAAGAACGTTATTGGATATTTTGGCAGATGGCACCATTTTGAAGTTGGAGTGGGATG
CTCAGAAGATGCCAGCAAGCTTCTGCAGGATTATGGCCTCGTTGTTAGGGGGTGCCTGGA
CCTCCGATACCTAGCCATGCGGCAGAGAAACAATTTGCTCTGTAATGGGCTTAGCCTGAA
GTCCCTCGCTGAGACTGTTTTGAACTTTCCCCTTGACAAGTCCCTTCTACTTCTGTTGCAG
CAACTGGGATGCTGAGACTCTCACAGAGGACCAGGTAATTTATGCTGCCAGGGATGCCCA
GATTTTCAGTGGCTCTCTTTCTTTCATCTTCTTGATACCCCTTCTCTAGGAATTCACCTGG
AGAAAAAACGATGACCACAGTAGCTGGAGAAAAGTCTTGAAAAATGCCANGGTGTGGT
CGACATCCCATTTTGAAGCNAGGAATGAGCAGATTGGGAGAAAGAGGTTAATGGGGAAGA
ACAGAATCTCAGCAGAAGCCAGAAATAAGAGTCTAGATGGATGGGATGGTGGCCAGGCAC
CACCAGGGAGAGACCCAGAACTAAAGAAGCTCTGGGGGGTGGGCTATCTGCAAAAATAC
CTTTAGATACTGCTTCTTCTGCTCTGAGGGAAGCCCTTGGACTGTGAAGAGAAACTTAN
TGTAAGTACAGGCATGTGANCTGGAGGAAACCCCTTGGAAACACCGTTACCTCGGAGGC
CATTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_018199 unedited CGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGAATTTAAAATTTTATTTTT TTACCTTTTTTTTACATTTTTTAAAAATAAACAGTGTTCAAAAAACATTGACTAC AAGGGGAAATGAGGCAATAAGGTTGGAAGAAGGAAGGACTCAAGAAGAAATGCTGAAC CTGCAACACAATGATCAGGGAGCATGCAGAGAGGCCCTTGCTGTGACTGTCTCTCA CTGCTACTCCTATGAAGCCCAGTGACTATGCTGGGACACTGGAGCTAAAGGGTCAAAGAG AAGCATTTCATTCTAAAAGGTGATGTCAATTTGTAAGCTTACCCCAAGCAATGTGAATCCC CCTCTTCACAGTCCAATTCTAAGATTCCATTCTTAAGAAATTACCAAAGATAGAGCCAAA GAGATATATACAAGAACTTTATCACATCATCATTGATAATAAAAAGTATCTGAAACAACC AAAATTTTCAACAGTGTGGGATGGATAAGGTAGAACCACTAGAAATCTATTTTCAAAGA TTTAAAAACATAGGAAGTTACTCGTGATACCATGTTAATCAGTGAGAGGGTAAAGTTAGG ATACCAACCTGTATCTATGTATGACCTTCAATTTTGTGTAATATACACCTTATATGCAC TTTTTAATACTGAAAGGAAATTCATAAACATATCAGCAAAGTTTAGCTCTGTTTTAGATG GAGAGAAGATGGCTAATTTTTATTCTTTGNTTAGATTCTTCTGTAATGAGCATTGTTACT TTTATATCAGAAAAATAGACATTTGCCATANNATAAGTCTACCCTCAATCTCTGATTAG ACGACATTTGTAGTCTTTAGAAAAGCTGCNTAAGTCAAGCAGACTCAAGAAAAAGATTCA ATCTAACAGTGACTCTCCCTGAAAAGATGAGAAATCTGTGTGACGCANCTGGCTTTTCTCT CTACTTGCTGNGGCTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_018199
Insert Size:	4250 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:	<ol style="list-style-type: none"> 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:	<u>NM_018199.1</u> , <u>NP_060669.1</u>
RefSeq Size:	2833 bp
RefSeq ORF:	1491 bp
Locus ID:	55218
UniProt ID:	<u>Q9NVH0</u>
Cytogenetics:	14q24.1
Domains:	3_5_exonuclease

Gene Summary:

Exonuclease required for double-strand breaks resection and efficient homologous recombination. Plays a key role in controlling the initial steps of chromosomal break repair, it is recruited to chromatin in a damage-dependent manner and functionally interacts with the MRN complex to accelerate resection through its 3'-5' exonuclease activity, which efficiently processes double-stranded DNA substrates containing nicks.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (5) is missing 2 internal exons compared to variant 1. This results in translation initiation from an in-frame downstream AUG and a shorter isoform (2) compared to isoform 1. 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.