

Product datasheet for SC112422

DEM1 (EXO5) (NM_022774) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEM1 (EXO5) (NM_022774) Human Untagged Clone
Tag:	Tag Free
Symbol:	DEM1
Synonyms:	C1orf176; DEM1; Exo V; hExo5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112422 sequence for NM_022774 edited (data generated by NextGen Sequencing)

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ATGGCAGAGACAAGAGAAGAGAGAGACAGTGTCTCAGCAGAAGCCTCAGGGTTCTCAGACTTG
AGTGACTCAGAGTTCTCTGGAGTTTCTGGACCTAGAAGATGCCCAAGAGTCAAAGGCTTTA
GTTAACATGCCTGGCCCATCTTCTGAATCCCTTGGGAAGGATGACAAACCCATAAGCTTA
CAAAACTGGAAAAGAGGATTGGATATATTATCACCCATGGAGAGATTCCACCTTAAATAT
TTATATGTCACTGACCTGGCTACTCAGAACTGGTGTGAACTGCAAACAGCATATGGGAAG
GAGCTTCTGGTTTCTTGGCACCTGAGAAGGCAGCTGTGTTGGACTGGTGCCAGCATA
CACCTAGCTAGAGAACTAGAACTTCATGATCTTGTGACTGTCCAGTCACCACTAAAGAA
GATGCTTGGGCAATTAAGTTTCTGAACATACCTTTGCTGATTCCCTACCCTGCAGTCAGAA
GGGCACATCAGAGAGTTTCCAGTGTGGGGAAGGGAGGGTGTACTTCTTGTGGAGTG
ATTGATGAGCTGCACTATACAGCCAAGGGGGAAGTGGAGCTGGCGGAAGTCAAGACACGC
AGGCGCCCTATGCTCCCTCTGGAAGCTCAGAAGAAGAAAGACTGTTTTCAAGTCAGCCTA
TACAAATATATCTTTGATGCCATGGTACAAGGAAAAGTGACCCCTGCTAGCCTAATCCAC
CACACAAAGTTGTGTCTAGAAAAGCCACTGGGGCCATCAGTGTGAGGCATGCCAGCAG
GGAGGCTTCTGTGAAGTCTTGGGTGACCTCATGGAAGTGTCTTCTGTCTCTAACA
CTGTCAGACCTCCAGTTATTGATATCTTGAAGATTGAGTATATCCACCAAGAGACTGCC
ACTGTGCTGGGTACTGAGATTGTAGCCTTCAAAGAGAAGGAGGTGAGAGCCAAGGTGCAG
CATTATATGGCCTACTGGATGGGCCACCGAGAGCCCCAGGGAGTTGACGTGGAGGAGGCT
TGGAAAGTGCCGACGTGTACCTATGCAGACATTTGTGAGTGGAGAAAGGGCAGTGGAGTG
CTCAGCTCTACACTGGCGCCCAAGTCAAAAAGCCAAATGA

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Clone variation with respect to NM_022774.1
452 t=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_022774 unedited ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTAGCCTTGTCAATTCAGCA TTCTGGCCTTCCCTATGAGGAGGAAGATCAACGAAGTCACAGGGCCCTTCTAGCCCAATC CAGAGCTGTACCATGGCAGAGACAAGAGAAGAGGAGACAGTGTACAGCAGAAGCCTCAGGG TTCTCAGACTTGAGTGACTCAGAGTTCTGGAGTTTCTGGACCTAGAAGATGCCAAAGAG TCAAAGGCTTTAGTTAACATGCCTGGCCATCTTCTGAATCCCTTGGGAAGGATGACAAA CCCATAAGCTTACAAAAGTGGAAAAGAGGATTGGATATATTATCACCCATGGAGAGATTC CACCTTAAATATTTATATGTCACTGACCTGGCTACTCAGAACTGGTGTGAACTGCAAAACA GCATATGGGAAGGAGCTTCTGGTTTCTTGGCACCTGAGAAGGCAGCTGTGTTGGACACT GGTGCCAGCATAACCTAGCTAGAGAAGTGAAGTTCATGATCTTGTGACTGTCCCAGTC ACCACTAAAGAAGATGCTTGGGCAATTAAGTTTCTGAACATACCTTTGCTGATTCCTACC CTGCAGTCAGAAGGGCACATCAGAGAGTTTCCAGTGTGGGGAAGGGGAGGGTGTACTT CTTGTTGGAGTGATTGATGAGCTGCACTATACAGCCAAGGNGAACTGGAGCTGGCGGAA CTC AAGACACGCAGGCGCCCTATGCTCCCTCTGGAAGCTCANAAGAGAAAGACTGTTNTC AAGTCAGCCTATACAAATATATCTTTGATGCCATGGTACAGGGAAAAGTGACCCCTGCTA GCCTAATCCACACANCAAGNTGTGTCTANAAAAGCACTGGGGCCATCANTGCTGAGGCAT GCCCANCAGNNAGCTCTCTGTGAAGTCTTGGGTGACTCATGGNACTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_022774 unedited ATGGACCGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTGGACAGCATTTT ATTTTATTATGTAAGTGTAGAAAGCCTTGATCAAGATAAAAATAGGGATGACTTATCAGA AACTGAAGAATTTTCTTAAGAAAGCAAAGTTTACTGAAGGATACCTTCATTCCAGCCATG ATGAGCATCTGTCTTCTCAGGCAATCATGATGAAGCTCCAGGGACAGTATAACCCATCTC TCCCACTCATCCCTGAGCCTTGGTCTGGACTGAATGTGGTTAGAGGTTGTGAAATAAA AAAAAGAACAAAATAAGAACAACCTCCATAAAAAGCCAAGCTCAGAGACTGGTCCTCTTT TGCTTAAGTACAACAGGAGCAGGAAGGATCAACATTCTTGAAGCATACCTTCTATTTCAT TTGGCTTTTTTGACTTGGGGCGCCAGTGTAGAGCTGAGCACTCCACTGCCCTTTCTCCAC TCACAAATGTCTGCATAAGTACACGTCCGGCACTTCCAAGCCTCCTCCACGTCAACTCCC TGGGGCTCTCGGTGGCCCATCCAGTAAGCCATATAATGCTGCACCTTGGCTCTCACCTCC TTCTCTTTGAAAGCTACAATCTCAGTACCCAGCACAGTGGCAGTCTCTTGGAGGATATA TCAATCTTCAAGATATCAATAACTGGGAAGGCTGACAGTGTAGAGACAAGAAGCAAGT TCCATGAGGCCACCCCAAGACTTACAGAGAATCCTCCCTGCCTGGCATGGCTCAACACT GATGGCCCAAGGGCTTTTCTAGACACCACTTTGTGTGGAGGATTATGCCTAACAGGGGT AATTTTTCCTTGTACCACTNGCTCCAAGATTATTTGGGCTAAGCCGCCTGAAAACTCTC TCTTCTTTCGACTCCAAAGGAACATATGGCCCCGGTTGCTCTGAATTCCTCACTTTTCATT CCCCTGGGCTGTTATGGGCCTTACATACCTCAACAAAATCCCCCCTC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_022774
Insert Size:	1700 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_022774.1](#), [NP_073611.1](#)

RefSeq Size: 2217 bp

RefSeq ORF: 1122 bp

Locus ID: 64789

UniProt ID: [Q9H790](#)

Cytogenetics: 1p34.2

Gene Summary: The protein encoded by this gene is a single-stranded DNA (ssDNA)-specific exonuclease that can slide along the DNA before cutting it. However, human replication protein A binds ssDNA and restricts sliding of the encoded protein, providing a 5'-directionality to the enzyme. This protein localizes to nuclear repair loci after DNA damage. [provided by RefSeq, Nov 2016]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All variants encode the same protein.