

## Product datasheet for **SC320907**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene sequence for NM\_022774.1  
 CCGGGCCGACTGTGTAGTCCGCTCCGGCAGCGCGCTCTGCCCGGCTTCTCAGTCTCCTCG  
 CCGGGAGCGTCCGGGAGCAGCTCCGAGGCCGGCGAAACCAGGGAGCAGGGATTGGATC  
 AAGTCATTGCATCTAGAGTACGGGGGAACGAAGAAATCATGGAGAGAGTTGCCCCAGGA  
 GAGAGGCGAGCGTTATGTAACCTAGGATCTGGGGTGGTAACAGTCTGTGCAGTGTCAAT  
 CTGAGAGGAGAAAAACCCCAACGTGAGGGAATGGTCAGCCTTGTCAATTCAGCATTCTGG  
 CCTTCCCTATGAGGAGGAAGATCAACGAAGTACAGGGCCCTTCTAGCCCAATCCAGAGC  
 TGTACCATGGCAGAGACAAGAGAAGAGGAGACAGTGTACAGCAGAAGCCTCAGGGTTCTCA  
 GACTTGAGTGACTCAGAGTTCCTGGAGTTTCTGGACCTAGAAGATGCCCAAGAGTCAAAG  
 GCTTTAGTTAACATGCCTGGCCCATCTTCTGAATCCCTTGGGAAGGATGACAAACCATA  
 AGCTTACAAAAGTGGAAAAGAGGATTGGATATATTATCACCCATGGAGAGATTCCACCTT  
 AAATATTTATATGTCACCTGACCTGGCTACTCAGAACTGGTGTGAAGTGCAAAACAGCATAT  
 GGGAAAGGAGCTTCTGGTTTCTTGGCACCTGAGAAGGCAGCTGTGTTGGACTGTTGCC  
 AGCATAACCTAGCTAGAGAAGTGAAGTTCATGATCTTGTGACTGTCCCAGTCAACCT  
 AAAGAAGATGCTTGGCAATTAAGTTTCTGAACATACTTTTGGTATTCTACCCTGCAG  
 TCAGAAGGGCACATCAGAGAGTTTCCAGTGTGGGGAAAGTGGAGGGTACTTCTTGT  
 GGAGTGATTGATGAGCTGCACTATACAGCCAAGGGGAACTGGAGCTGGCGGAACTCAAG  
 ACACGCAGGCGCCCTATGCTCCCTCTGGAAGCTCAGAAGAAGAAAGACTGTTTTCAAGTC  
 AGCCTATACAAATATATCTTTGATGCCATGGTACAAGGAAAAGTACCCCTGCTAGCCTA  
 ATCCACCACACAAAGTTGTGTCTAGAAAAGCCACTGGGGCCATCAGTGTGAGGCATGCC  
 CAGCAGGGAGGCTTCTGTGAAGTCTTGGGTGACCTCATGGAAGTGTCTTCTGTCT  
 CTAACACTGTGACCTCCAGTATTGATATCTTGAAGATTGAGTATATCCACCAAGAG  
 ACTGCCACTGTGCTGGTACTGAGATTGTAGCCTTCAAAGAGAAGGAGGTGAGAGCCAAG  
 GTGCAGCATTATATGGCCTACTGGATGGGCCACCGAGAGCCCAAGGAGTTGACGTGGAG  
 GAGGCTTGGAAAGTGCCGGACGTGTACCTATGCAGACATTTGTGAGTGGAGAAAGGCACT  
 GGAGTGCTCAGCTCTACACTGGCGCCCAAGTCAAAAAAGCCAAATGAATAGAAGGTATG  
 CTTTCAAGAAATGTTGATCCTTCTGCTCCTGTTGTACCTAAGCAAAAGAGGACCAGTCTC  
 TGAGCTTGGCTTTTATGGAGAGTGTCTTATTTTGGTTCTTTTTTTTATTTCCACAACCT  
 CTAACCACATTAGTCCAGGACCAAGGCTCAGGGATGAGTGGGAGAGATGGGTTACTG  
 TCCCTGGAGCTTCATCATGATTGCCTGAGAAGACAGATGCTCATCATGGCTGGAATGAAG  
 GTATCCTTCAGTAACTTTGCTTTCCTAAGAAAATTCCTCAGTTTCTGATAAGTCATCCC  
 TATTTTTATCTTGATCAAGGCTTCTACAGTTACATAATAAATGAAATGCTGTCCAGAA  
 AA

**Restriction Sites:** Please inquire

**ACCN:** NM\_022774

**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\\_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.