

Product datasheet for **SC113987**

DEF8 (NM_017702) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEF8 (NM_017702) Human Untagged Clone
Tag:	Tag Free
Symbol:	DEF8
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_017702, the custom clone sequence may differ by one or more nucleotides

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ATGGAATATGATGAGAAGCTGGCCCGTTCCGGCAGGCCACCTCAACCCCTTCAACAAGCAGTCTGGGC  
CGAGACAGCATGAGCAGGGCCCTGGGGAGGAGGTCCCGGACGTCCTCTGAAGAGGCCCTGCCTGAGCT  
GCCCCCTGGGGAGCCGGAATCCGCTGCCCTGAACGCGTGATGGATCTCGGCCTGTCTGAGGACCACTTC  
TCCCGCCCTGTGGGTCTGTTCTGGCCTCTGACGTCCAGCAGCTGCGGCAGGCGATCGAGGAGTGAAGC  
AGGTGATTCTGGAGCTGCCGAGCAGTCGGAGAAGCAGAAGGATGCCGTGGTGCGACTCATCCACCTCCG  
GCTGAAGCTCCAGGAGCTGAAGGACCCCAATGAGGATGAGCCAAACATCCGAGTGCTCCTTGAGCACCGC  
TTTTACAAGGAGAAGAGCAAGAGCGTCAAGCAGACCTGTGACAAGTGTAAACCATCATCTGGGGCTCA  
TTCAGACCTGGTACACCTGCACAGGTGGGCCGAGACCCAGACGAGGAGTGAGGAATGAGAGAGACCAAAG  
TTCCTGCCTCCGCTGGGCTCACATTCAGATGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017702 unedited GGATTTGTATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGTCAGGTGGGAT GCTATGGAATATGATGAGAAGCTGGCCCGTTTCCGGCAGGCCACCTCAACCCCTTCAAC AAGCAGTCTGGGCCGAGACAGCATGAGCAGGGCCCTGGGGAGGAGGTCCCGGACGTCCT CCTGAAGAGGCCCTGCCTGAGCTGCCCCCTGGGGAGCCGGAATCCGCTGCCCTGAACGC GTGATGGATCTCGGCCTGTCTGAGGACCACTTCTCCCGCCCTGTGGGTCTGTTCCCTGGCC TCTGACGTCCAGCAGCTGCGGCAGGCATCGAGGAGTGCAAGCAGGTGATTCTGGAGCTG CCCGAGCAGTCGGAGAAGCAGAAGGATGCCGTGGTGCGACTCATCCACCTCCGGCTGAAG CTCCAGGAGCTGAAGGACCCCAATGAGGATGAGCCAAACATCCGAGTGCTCCTTGAGCAC CGCTTTTACAAGGAGAAGAGCAAGAGCGTCAAGCAGACCTGTGACAAGTGTAAACACCATC ATCTGGGGGCTCATTAGACCTGGTACACCTGCACAGGGTGTATTACCGCTGTCACAGT AAGTGCTTGAACCTCATCTCCAAGCCCTGTGTGAGCTCCAAAGTCAGCCACCAAGCTGAA TACGAAGTGAACATCTGCCCTGAGACAGGGCTGGACAGCCAGGATTACCGCTGTGCCGAG TGCCGGGGCGCCATCTCTCTGCGGNGTGTGCCAGTGAGGCCAGGAGTCCGACTACACC GGCCAGTACTACTGCAGCCACTGCCACTGGAACGACCTGNCTGTGATCCCCTGCACGCGT GTACACAAGTGGACTTGAGCCTCGAAGGTTCTCGCTGCACATGCGCTACCTGCGCTGA TGTGTCTCGGCCGTAAGTCTCAGCTCGGGAGATCACCTCTGCTGTCAGTACGTGAGGAGCT GTGAGT
Restriction Sites:	NotI-NotI
ACCN:	NM_017702
Insert Size:	3750 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_017702.2, NP_060172.1</u>
RefSeq Size:	921 bp
RefSeq ORF:	594 bp
Locus ID:	54849
UniProt ID:	<u>Q6ZN54</u>
Cytogenetics:	16q24.3

Gene Summary:

Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts. Involved in bone resorption.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) has multiple differences in the 5' and 3' UTRs, compared to variant 1. These differences cause translation initiation at an in-frame downstream start codon, compared to variant 1. The encoded protein (isoform 2) has shorter N- and C-termini, compared to isoform 1. Variants 2, 8, and 9 encode the same protein.