

Product datasheet for **MC227753**

Def8 (NM_001281803) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Def8 (NM_001281803) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Def8
Synonyms:	AI449518; D8Ertd713e; DEF-8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227753 representing NM_001281803
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAATATGATGAGAAGCTGGTTCGGTTCGGCAGGCCACCTCAACCCCTTCAACAAGCAGCTTGGTC
CGAGGCATCATGAACAGGAACCCAGTGAGAAGGTCACTTCTGAAGACACTTTGCCTGAGCTGCCCGCTGG
GGAGCCTGAATCCACTACTCGGAGCGCATGATGGATCTCGGCCTGTCTGAGGACCACTTTCCCGCCCT
GTGGGTCTCTTCTGGCCTCTGATGTCCAGCAGCTGCGGCAGGCCATCGAAGAATGCAAACAGGTGATCC
TGGAGCTGCCGAGCAGTCAGAGAAGCAGAAGGACGCTGTGGTGC GGCTGATCCACCTCCGGCTGAAGCT
CCAGGAGCTGAAGGACCCCAATGAGGAGGAACCAACATCCGGGTTCTCTGGAACATCGTTCTACAAG
GAGAAGAGCAAGAGCGTTAAACAGACCTGCGATAAGTGAACACCATCATCTGGGGGCTCATCCAGACCT
GGTACACCTGCACAGGTGTTGTTACCGCTGTACAGCAAGTGCCTGAACCTCATCTCAAACCATGTGT
CAGCTCCAAGGTGAGTACCAGGCTGAGTATGAGCTGAACATCTGCCCTGAGACCGGGCTGGACAGCCAG
GACTACCGCTGTGCGGAGTGCCGTGCTCCCATCTCTGAGAGGTGTGCCTAGTAGAGGCCCGGCAGTGTG
ACTACACGGGCCAATACTACTGCAGCCACTGCCACTGGAACGACCTGGCTGTCATCCCCGCGAGAGTGGT
GCACAACCTGGGACTTTGAGCCACGCAAGGTGTCCCGTTGCAGCATGCGCTACCTGGCACTGATGGTGTCT
CGGCCAGTGTCCGGCTCCGGGAGATTAACCCCTTGTGTTAACTACGTGGAAGAGCTGGTGGAGATCC
GGAAACTGCGCCAGGACATCCTGCTCATGAAGCCATACTTCATCACCTGCAAGGAGGCCATGGAGGCGCG
ACTACTGCTGCAGCTCCAAGACAGACAGCATTTTGTGGAGAACGATGAGATGACTCTATCCAGGACCTC
TTGGAAGTGCACATGGGCCGCTCAGCTGCTCGCTCACTGAGATCCACACGCTCTTCGCCAAGCACATCA
AGTTGGACTGTGAGCGGTGCCAAGCCAAGGGTTCGTCTGTGAACCTGCAAAGAAGGGGACGCTGCTCTT
CCCGTTTCGACAGCCACAGTCTGTGTGCAATGACTGTTTCGGCTGTCTCCACAGGACTGTTACTACGAC
AACTCGACCACGTGCCCAAGTGTGCCGGCTCACATTGAGGAAGCAGTCACTATTCCAGGAACCTGGCC
TAGACATGGATGCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001281803

Insert Size: 1347 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001281803.1](#), [NP_001268732.1](#)

RefSeq Size: 3877 bp

RefSeq ORF: 1347 bp

Locus ID: 23854

UniProt ID: [Q99J78](#)

Cytogenetics: 8 72.1 cM

Gene Summary: Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts (PubMed:27777970). Involved in bone resorption (PubMed:27777970). [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) uses an alternate 5' exon structure, and thus differs in the 5' UTR and 5' coding region, compared to variant 1. These differences cause translation initiation at a downstream start codon and result in an isoform (3) with a shorter N-terminus compared to isoform 1. Both variants 3 and 4 encode the same isoform (3).