

Product datasheet for **MC227810**

Def8 (NM_001253784) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Def8 (NM_001253784) 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: >MC227810 representing NM_001253784
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCCTCATGCAGGGTAAAGGGTGGGATGCTATGGAATATGATGAGAAGCTGGTTCGGTCCGGC
 AGGCCACCTCAACCCCTTCAACAAGCAGCTTGGTCCGAGGCATCATGAACAGGAACCCAGTGAGAAGGT
 CACTTCTGAAGACACTTTGCCTGAGCTGCCCGCTGGGAGCCTGAATTCCACTACTCGGAGCGCATGATG
 GATCTCGGCTGTCTGAGGACCACTTTCCCGCCTGTGGGTCTCTTCTGGCCTCTGATGTCCAGCAGC
 TGCGGCAGGCCATCGAAGAATGCAACAGGTGATCCTGGAGCTGCCGAGCAGTCAGAGAAGCAGAAGGA
 CGCTGTGGTGGGCTGATCCACCTCCGGCTGAAGCTCCAGGAGCTGAAGGACCCCAATGAGGAGGAACCC
 AACATCCGGGTTCTCTGGAACATCGTCTTACAAGGAGAAGAGCAAGAGCGTTAAACAGACCTGCGATA
 AGTGCAACACCATCATCTGGGGCTCATCCAGACCTGGTACACCTGCACAGGGTGTGTTACCGCTGTCA
 CAGCAAGTGCCTGAACCTCATCTCAAACCATGTGTGAGTCCAAGGTCAGTCACCAGGCTGAGTATGAG
 CTGAACATCTGCCCTGAGACCGGGCTGGACAGCCAGGACTACCGCTGTGGGAGTGCCGTCTCCCATCT
 CTCTGAGAGGTGTGCCTAGTGAGGCCCGGCAGTGTGACTACACGGGCAATACTACTGCAGCCACTGCCA
 CTGGAACGACCTGGCTGTATCCCGCGAGAGTGGTGCACAACCTGGGACTTTGAGCCACGCAAGGTGTC
 CGTTGCAGCATGCGCTACCTGGCACTGATGGTGTCTCGGCCAGTGTCCGGCTCCGGGAGATTAACCCTT
 TGCTGTTAACTACGTGGAAGAGCTGGTGGAGATCCGAAACTGCGCCAGGACATCTGTCTATGAAGCC
 ATACTTCATCACCTGCAAGGAGGCCATGGAGGCGGCACTACTGCTGCAGCTCCAAGACAGACAGCATTTT
 GTGGAGAACGATGAGATGTACTCTATCCAGGACCTTTGGAAGTGCACATGGGCCGCTCAGCTGCTCGC
 TCACTGAGATCCACACGCTCTTCGCCAAGCACATCAAGTTGGACTGTGAGCGGTGCCAAGCCAAGGGGTT
 CGTCTGTGAACTCTGCAAGAAGGGGACGTGCTCTTCCCGTTCGACAGCCACACGTCTGTGTGCAATGAC
 TGTTCCGGTGTCTTCCACAGGACTGTTACTACGACAACCTCGACCACGTGCCCAAGTGTGCCCGGCTCA
 CATTGAGGAAGCAGTCACTATTCCAGGAACCTGGCCTAGACATGGATGCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001253784
- Insert Size:** 1383 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_001253784.1](#), [NP_001240713.1](#)

RefSeq Size: 3873 bp

RefSeq ORF: 1383 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 (2) 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 an alternate AUG and result in an isoform (2) with a shorter and distinct N-terminus, compared to isoform 1.