

## Product datasheet for **MC227866**

### Def8 (NM\_001253783) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Def8 (NM_001253783) 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:** >MC227866 representing NM\_001253783  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATG**CAGGGT**GAAAGGGGAACATCTCAAGTAAGGGGACAGGAAGGAAGATCCAGTTC**CAAGAGGTGGGATG**  
 CTATGGAATATGATGAGAAGCTGGTTCGGTTCGGCAGGCCACCTCAACCCCTTCAACAAGCAGCTTGG  
 TCCGAGGCATCATGAACAGGAACCCAGTGAAGGTC**ACTTCTGAAGACCTTTGCCTGAGCTGCCCGCT**  
 GGGGAGCCTGAATCCACTACTCGGAGCGCATGATGGATCTCGGCCTGTCTGAGGACCACTTTCCCGCC  
 CTGTGGGTCTCTTCTGGCCTCTGATGTCCAGCAGCTGCGGCAGGCCATCGAAGAATGCAAAACAGGTGAT  
 CCTGGAGCTGCCGAGCAGTCAAGAGAAGCAGAAGGACGCTGTGGTGC**GGCTGATCCACCTCCGGCTGAAG**  
 CTCCAGGAGCTGAAGGACCCCAATGAGGAGGAACCAACATCCGGGTTCTCTGGAACATCGTTCTACA  
 AGGAGAAGAGCAAGAGCGTTAAACAGACCTGCGATAAGTGAACACCATCATCTGGGGGCTCATCCAGAC  
 CTGGTACACCTGCACAGGGTGTGTTACCGCTGTCA**CAGCAAGTGCCTGAACCTCATCTCCAACCATGT**  
 GTCAGCTCCAAGTCA**GTCA**CCAGGCTGAGTATGAGCTGAACATCTGCCCTGAGACCGGGCTGGACAGCC  
 AGGACTACCGCTGTGCGGAGTGCCGTGCTCCCATCTCTCTGAGAGGTGTGCCTAGTGAGGCCCGGAGTG  
 TGACTACACGGGCAATACTACTGCAGCCACTGCCACTGGAACGACCTGGCTGT**CATCCCCGCGAGAGTG**  
 GTGCACA**ACTGGGACTTTGAGCCACGCAAGGTGTCCC**GTTCAGCATGCGCTACCTGGCACTGATGGTGT  
 CTCGGCCAGTGTCCGGCTCCGGGAGATTAACCC**TTGCTGTTTAACTACGTGGAAGAGCTGGTGGAGAT**  
 CCGGAACTGCCCAGGACATCTGTCTATGAAGCCACTTTCATCACCTGCAAGGAGGCCATGGAGGGC  
 CGACTACTGTGCAGCTCAAGACAGACAGCAGT**TTTGTGGAGA**ACGATGAGATGTACTCTATCCAGGACC  
 TCTTGGAA**GTGCACATGGGCC**CTCAGCTGCTCGCTCACTGAGATCCACACGCTCTTCGCAAGCACAT  
 CAAGTTGGACTGTGAGCGGTGCCAAGCC**AAGGGTTCGTCTGTGA**ACTCTGCAAAGAAGGGGACGTGCTC  
 TTCCCGTT**CGACAGCCACACGTCTGTGTCAATGACTGTT**CGGCTGTCTTCCACAGGGACTGTTACTACG  
 ACAACTCGACCACGTGCCCAAGTGTGCCCGGCTCACATTGAGGAAGCAGTCACTATTCCAGGAACCTGG  
 CCTAGACATGGATGC**CTAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001253783
- Insert Size:** 1419 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\\_001253783.1](#), [NP\\_001240712.1](#)

**RefSeq Size:** 3895 bp

**RefSeq ORF:** 1419 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 (1) represents the longest transcript and encodes the longest protein (isoform 1).