

Product datasheet for **MC215979**

Def8 (NM_054046) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Def8 (NM_054046) 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: >MC215979 representing NM_054046
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAATATGATGAGAAGCTGGTTCGGTTCGGCAGGCCACCTCAACCCCTTCAACAAGCAGCTTGGTC
 CGAGGCATCATGAACAGGAACCCAGTGAGAAGGCACTTCTGAAGACACTTTGCCTGAGCTGCCCGCTGG
 GGAGCCTGAATCCACTACTCGGAGCGCATGATGGATCTCGGCCTGTCTGAGGACCACTTTCCCGCCCT
 GTGGGTCTCTTCTGGCCTCTGATGTCCAGCAGCTGCGGCAGGCCATCGAAGAATGCAAACAGGTGATCC
 TGGAGCTGCCGAGCAGTCAGAGAAGCAGAAGGACGCTGTGGTGC GGCTGATCCACCTCCGGCTGAAGCT
 CCAGGAGCTGAAGGACCCCAATGAGGAGGAACCAACATCCGGGTTCTCTGGAACATCGTTCTACAAG
 GAGAAGAGCAAGAGCGTTAAACAGACCTGCGATAAGTGAACACCATCATCTGGGGGCTCATCCAGACCT
 GGTACACCTGCACAGGTGTTGTTACCGCTGTACAGCAAGTGCCTGAACCTCATCTCAAACCATGTGT
 CAGCTCCAAGGTCAGTCACCAGGCTGAGTATGAGCTGAACATCTGCCCTGAGACCGGGCTGGACAGCCAG
 GACTACCCTGTGCGGAGTGCCGTGCTCCCATCTCTGAGAGGTGTGCCTAGTGAGGCCCGGCAGTGTG
 ACTACACGGGCCAATACTACTGCAGCCACTGCCACTGGAACGACCTGGCTGTCATCCCCGCGAGAGTGGT
 GCACAACCTGGGACTTTGAGCCACGCAAGGTGTCCCGTTGCAGCATGCGCTACCTGGCACTGATGGTGTCT
 CGGCCAGTGTCCGGCTCCGGGAGATTAACCCTTTGTGTTTAACTACGTGGAAGAGCTGGTGGAGATCC
 GGAAACTGCGCCAGGACATCCTGCTCATGAAGCCATACTTCATCACCTGCAAGGAGGCCATGGAGGCGCG
 ACTACTGCTGCAGCTCCAAGACAGACAGCATTTTGTGGAGAACGATGAGTGTACTCTATCCAGGACCTC
 TTGGAAGTGCACATGGGCCGCTCAGCTGCTCGCTCACTGAGATCCACACGCTCTTCGCCAAGCACATCA
 AGTTGGACTGTGAGCGGTGCCAAGCCAAGGGTTCGTCTGTGAACTCTGCAAAGAAGGGGACGTGCTCTT
 CCCGTTTCGACAGCCACAGTCTGTGTGCAATGACTGTTCCGGCTGTCTTCCACAGGACTGTTACTACGAC
 AACTCGACCACGTGCCCAAGTGTGCCCGCTCATTGAGGAAGCAGTCACTATTCCAGGAACCTGGCC
 TAGACATGGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_054046

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).

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_054046.5](#), [NP_473387.1](#)

RefSeq Size: 3786 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 (3) lacks two alternate exons in the coding region that results in the use of a downstream start codon compared to variant 1. It encodes isoform 3 which has a shorter N-terminus compared to isoform 1. Both variants 3 and 4 encode the same isoform (3).