

Product datasheet for **MR230077**

Def8 (NM_001253783) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Def8 (NM_001253783) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Def8
Synonyms:	A1449518; D8Ertd713e; DEF-8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230077 representing NM_001253783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGGTGAAAGGGGAACATCTCAAGTAAGGGGACAGGAAGGAAGATCCAGTTCGAAGAGGTGGGATG
 CTATGGAATATGATGAGAAGCTGGTTCGGTTCGGCAGGCCACCTCAACCCCTTCAACAAGCAGCTTGG
 TCCGAGGCATCATGAACAGGAACCCAGTGAGAAGGTCACCTTCTGAAGACACTTTGCCTGAGCTGCCCGCT
 GGGGAGCCTGAATCCACTACTCGGAGCGCATGATGGATCTCGGCCTGTCTGAGGACCACTTTCCCGCC
 CTGTGGGTCTCTTCTGGCCTCTGATGTCCAGCAGCTGCGGCAGGCCATCGAAGAATGCAAAACAGGTGAT
 CCTGGAGCTGCCGAGCAGTCAAGAGAAGCAGAAGGACGCTGTGGTGGGCTGATCCACCTCCGGCTGAAG
 CTCCAGGAGCTGAAGGACCCCAATGAGGAGGAACCAACATCCGGTTCCTGGAACATCGTTCTACA
 AGGAGAAGAGCAAGAGCGTTAAACAGACCTGCGATAAGTGAACACCATCATCTGGGGCTCATCCAGAC
 CTGGTACACCTGCACAGGTGTTGTTACCGCTGTACAGCAAGTGCCTGAACCTCATCTCCAACCATGT
 GTCAGCTCCAAGTCAAGTCAACAGGCTGAGTATGAGCTGAACATCTGCCCTGAGACCGGGCTGGACAGCC
 AGGACTACCGCTGTGCGGAGTGCCGTGCTCCCATCTCTCTGAGAGGTGTGCCTAGTGAGGCCCGGAGTG
 TGACTACACGGGCAATACTACTGCAGCCACTGCCACTGGAACGACCTGGCTGTCAATCCCGCGAGAGTG
 GTGCACAACTGGGACTTTGAGCCACGCAAGGTGTCCCGTTCGAGCATGCGCTACCTGGCACTGATGGTGT
 CTCGGCCAGTGTCCGGCTCCGGGAGATTAACCCCTTGTGTTAACTACGTGGAAGAGCTGGTGGAGAT
 CCGGAACTGCCCAGGACATCTGTCTCATGAAGCCATACTTTCATCACCTGCAAGGAGGCCATGGAGGCG
 CGACTACTGCTGCAGCTCAAGACAGACAGCATTGTTGGAGAACGATGAGATGTACTCTATCCAGGACC
 TCTTGGAAAGTGCACATGGGCCCGCTCAGCTGCTCGCTCACTGAGATCCACACGCTCTTCGCAAGCACAT
 CAAGTTGGACTGTGAGCGGTGCCAAGCCAAAGGGTTCGTCTGTGAACCTGCAAAAGAAGGGGACGTGCTC
 TTCCCGTTGACAGCCACACGTCTGTGTCAATGACTGTTCCGGCTGTCTTCCACAGGACTGTTACTACG
 ACAACTCGACCACGTGCCCAAGTGTGCCCGGCTCACATTGAGGAAGCAGTCACTATTCCAGGAACCTGG
 CCTAGACATGGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230077 representing NM_001253783
 Red=Cloning site Green=Tags(s)

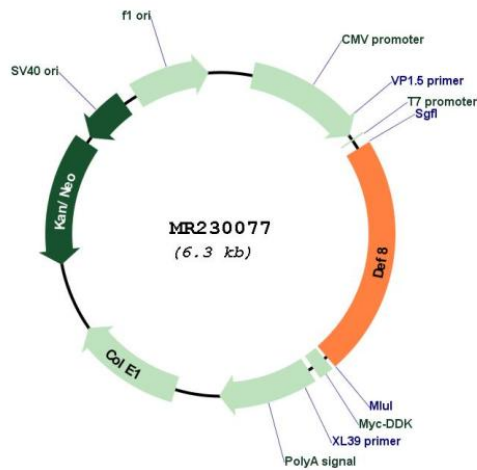
MQGERGTSQVRGQEGRSSSKRWDAMEYDEKLVFRQAHLNPFNKQLGPRHHEQEPSEKVTSEDTLPELPA
 GEPEFHYSERMMDLGLSEDFSRPVGLFLASDVQQLRQAIEECKQVILELPEQSEKQKDAVVRLIHLRLK
 LQELKDPNEEENIRVLLLEHRFYKEKSKSVKQTCDCNKNTIIWGLIQTWYCTGCCYRCHSKCLNLISKPC
 VSSKVSQAQAEYELNICPETGLDSQDYRCAECRAPISLRGVPSEARQCDYTGQYYCSHCHWNDAVIPARV
 VHNWDFEPRKVSRCMRYLALMVSRLRLREINPLLFNYVEELVEIRKLRQDILLMKPYFITCKEAMEA
 RLLLQLQDRQHFVENDEMYSIQDLLEVHMGRLLSCSLTEIHTLFAKHILDCERCQAKGFVCELCKEGDVL
 FPFDSHTSVCNDCSAVFHRDCYDNSTTCPKCARLTLRKQSLFQEPGLMDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_001253783

ORF Size:

1416 bp

OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

MW: 55.4 kDa

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]