

Product datasheet for **MR230021**

Def8 (NM_001253784) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Def8 (NM_001253784) 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:

>MR230021 representing NM_001253784
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCTCCTCATGCAGGGTAAAGGGTGGGATGCTATGGAATATGATGAGAAGCTGGTTCGGTTCGGC
 AGGCCACCTCAACCCCTTCAACAAGCAGCTTGGTCCGAGGCATCATGAACAGGAACCCAGTGAGAAGGT
 CACTTCTGAAGACACTTTGCCTGAGCTGCCCGCTGGGAGCCTGAATTCCACTACTCGGAGCGCATGATG
 GATCTCGGCTGTCTGAGGACCACTTTCCCGCCTGTGGGTCTCTTCTGGCCTCTGATGTCCAGCAGC
 TGCGGCAGGCCATCGAAGAATGCAACAGGTGATCCTGGAGCTGCCGAGCAGTCAGAGAAGCAGAAGGA
 CGCTGTGGTGGGCTGATCCACCTCCGGCTGAAGCTCCAGGAGCTGAAGGACCCCAATGAGGAGGAACCC
 AACATCCGGGTTCTCTGGAACATCGCTTCTACAAGGAGAAGAGCAAGAGCGTTAAACAGACCTGCGATA
 AGTGCAACACCATCATCTGGGGCTCATCCAGACCTGGTACACCTGCACAGGGTGTGTACCCTGTCA
 CAGCAAGTGCCTGAACCTCATCTCAAACCATGTGTCAGCTCAAAGGTCAGTCACCAGGCTGAGTATGAG
 CTGAACATCTGCCCTGAGACCGGCTGGACAGCCAGGACTACCGCTGTGGGAGTGCCGTGCTCCCATCT
 CTCTGAGAGGTGTGCCTAGTGAGGCCCGCAGTGTGACTACACGGGCAATACTACTGCAGCCACTGCCA
 CTGGAACGACCTGGCTGTATCCCGCGAGAGTGGTGCACAACCTGGGACTTTGAGCCACGCAAGGTGTC
 CGTTGCAGCATGCGCTACCTGGCACTGATGGTGTCTCGGCCAGTGTCCGGCTCCGGGAGATTAACCCCT
 TGCTGTTAACACTCGTGAAGAGCTGGTGGAGATCCGAAACTGCGCCAGGACATCTGCTCATGAAGCC
 ATACTTATCACCTGCAAGGAGGCCATGGAGGCGGACTACTGCTGCAGCTCAAAGACAGACAGCATT
 GTGGAGAACGATGAGATGTACTATCCAGGACCTTTGGAAGTGCACATGGGCCGCTCAGCTGCTCGC
 TCACTGAGATCCACACGCTTTCCGCAAGCACATCAAGTTGGACTGTGAGCGGTGCCAAGCCAAGGGGTT
 CGTCTGTGAACCTGCAAAGAAGGGGACGTGCTTCCCGTTCGACAGCCACACGCTGTGTGCAATGAC
 TGTTCCGGTGTCTTCCACAGGACTGTTACTACGACAACCTGACCACGTGCCCAAGTGTGCCCGGCTCA
 CATTGAGGAAGCAGTCACTATTCCAGAACCTGGCCTAGACATGGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230021 representing NM_001253784
 Red=Cloning site Green=Tags(s)

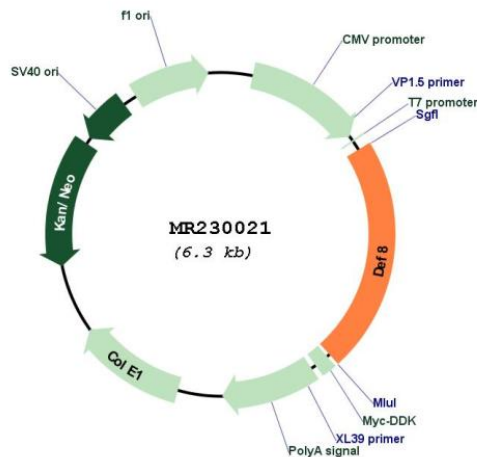
MPSSCRVKGWDAMEYDEKLVRFRAHLNPFNKQLGPRHHEQEPSEKVTSEDTLPELPAGEPEFHYSERMM
 DLGLSEDFSRPVGLFLASDVQQLRQAIIEECKQVILELPEQSEKQKDAVVRLIHLRLKLQELKDPNEEEP
 NIRVLLLEHRFYKEKSKSVKQTCDCNIIWGLIQTWYCTGCCYRCHSKCLNLISKPCVSSKVS HQAEYE
 LNICPETGLDSQDYRCAECRAPISLRGVPSEARQCDYTGQYYCSCHWNLDLAVIPARVVHNWDFEPRKVS
 RCSMRYLALMVS RPVLRLEINPLLFNYVEELVEIRKLRQDILLMKPYFITCKEAMEARLLLQLQDRQHF
 VENDEMYSIQDLLEVHMGRLSCSLTEIHTLFAKHILKDCERCQAKGFVCELCKEGDVLFPFDSHTSVCND
 CSAVFHRDCYYDNSTTCPKCARLTLRKQSLFQEPGLDMDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001253784

ORF Size: 1380 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:	<ol style="list-style-type: none">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:	<u>NM_001253784.1</u> , <u>NP_001240713.1</u>
RefSeq Size:	3873 bp
RefSeq ORF:	1383 bp
Locus ID:	23854
UniProt ID:	<u>Q99J78</u>
Cytogenetics:	8 72.1 cM
MW:	54.1 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]