

Product datasheet for **MR207144**

Def8 (NM_054046) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Def8 (NM_054046) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Def8
Synonyms:	A1449518; D8Ertd713e; DEF-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207144 representing NM_054046
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATATGATGAGAAGCTGGTTCGGTCCGGCAGGCCACCTCAACCCCTTCAACAAGCAGCTTGGTC
 CGAGGCATCATGAACAGGAACCCAGTGAGAAGGCACTTCTGAAGACACTTTGCCTGAGCTGCCCGCTGG
 GGAGCCTGAATCCACTACTCGGAGCGCATGATGGATCTCGGCCTGTCTGAGGACCACTTTCCCGCCT
 GTGGGTCTCTTCTGGCCTCTGATGTCCAGCAGCTGCGGCAGGCCATCGAAGAATGCAAACAGGTGATCC
 TGGAGCTGCCCGAGCAGTCAGAGAAGCAGAAGGACGCTGTGGTGC GGCTGATCCACCTCCGGCTGAAGCT
 CCAGGAGCTGAAGGACCCCAATGAGGAGGAACCAACATCCGGGTTCTCTGGAACATCGTTCTACAAG
 GAGAAGAGCAAGAGCGTTAAACAGACCTGCGATAAGTGAACACCATCATCTGGGGGCTCATCCAGACCT
 GGTACACCTGCACAGGTGTTGTTACCGCTGTACAGCAAGTGCCTGAACCTCATCTCAAACCATGTGT
 CAGCTCCAAGGTCAGTCACCAGGCTGAGTATGAGCTGAACATCTGCCCTGAGACCGGGCTGGACAGCCAG
 GACTACCCTGTGCGGAGTGCCGTGCTCCCATCTCTCTGAGAGGTGTGCCTAGTAGAGGCCCGCAGTGTG
 ACTACACGGGCCAATACTACTGCAGCCACTGCCACTGGAACGACCTGGCTGTATCCCGCGAGAGTGGT
 GCACAACCTGGGACTTTGAGCCACGCAAGGTGTCCCGTTGCAGCATGCGCTACCTGGCACTGATGGTGTCT
 CGGCCAGTGTCCGGCTCCGGGAGATTAACCCTTTGTGTTAACTACGTGGAAGAGCTGGTGGAGATCC
 GGAACCTGCGCCAGGACATCCTGCTCATGAAGCCATACTTATCACCTGCAAGGAGGCCATGGAGGCGCG
 ACTACTGCTGCAGCTCCAAGACAGACAGCATTTTGTGGAGAACGATGAGATGACTCTATCCAGGACCTC
 TTGGAAGTGCACATGGGCGCCTCAGCTGCTCGCTCACTGAGATCCACACGCTCTTCCCAAGCACATCA
 AGTTGGACTGTGAGCGGTGCCAAGCCAAGGGTTCGTCTGTGAACCTGCAAAGAAGGGGACGTGCTCTT
 CCCGTTGACAGCCACAGTCTGTGTGCAATGACTGTTCCGGCTGTCTCCACAGGGACTGTTACTACGAC
 AACTCGACCACGTGCCCAAGTGTCCCGCTCACATTGAGGAAGCAGTCACTATTCCAGGAACCTGGCC
 TAGACATGGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207144 representing NM_054046
 Red=Cloning site Green=Tags(s)

MEYDEKLVRFRQAHLPFNKQLGPRHHEQEPSEKVTSEDTLPELPAGEPEFHYSERMMDLGLSEDFSRP
 VGLFLASDVQQLRQAIIEECKQVILELPEQSEKQKDAVRLIHLRLKLQELKDPNEEENIRVLEHRFYK
 EKSKSVKQTCDKNTIIWGLIQTWYCTGCCYRCHSKLNLISKPCVSSKVSHQAEYELNICPETGLDSQ
 DYRCAECRAPISLRGVPSEARQCDYTGQYYCSHCHWNLAVIPARVVHNWDFEPRKVSRCMSRYLALMVS
 RPVLRLEINPLLFNYVEELVEIRKLRQDILLMKPYFITCKEAMEARLLLQLQDRQHFVENDEMYSIQDL
 LEVHMGRLLSCSLTEIHTLFAKHILKDCERCQAKGFVCELCKEGDVLFPFDSHTSVCNDCSAVFHRDCYYD
 NSTTCPKCARLTLRKQSLFQEPGLDMDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9076_e01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_054046

ORF Size: 1344 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_054046.5](#), [NP_473387.1](#)

RefSeq Size: 3786 bp

RefSeq ORF: 1347 bp

Locus ID: 23854

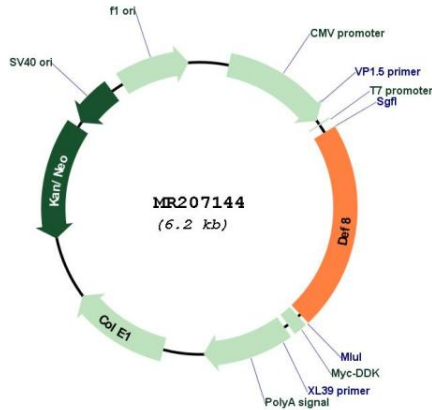
UniProt ID: [Q99J78](#)

Cytogenetics: 8 72.1 cM

MW: 52.3 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]

Product images:



Circular map for MR207144