

Product datasheet for RC234103

DEF8 (NM_001242816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEF8 (NM_001242816) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DEF8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC234103 representing NM_001242816 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAATATGATGAGAAGCTGGCCGTTTCCGGCAGGCCACCTCAACCCCTTCAACAAGCAGTCTGGGC
CGAGACAGCATGAGCAGGGCCCTGGGGAGGAGTCCCAGGAGTCACTCCTGAAGAGGCCCTGCCTGAGCT
GCCCCCTGGGGAGCCGGAATCCGCTGCCCTGAACCGTGATGGATCTCGGCCTGTCTGAGGACCACTTC
TCCCGCCCTGTGCTGCGGCAGGCGATCGAGGAGTGAAGCAGGTGATTCTGGAGCTGCCCGAGCAGTCCG
AGAAGCAGAAGGATGCCGTGGTGCAGCTATCCACCTCCGGCTGAAGCTCCAGGAGCTGAAGGACCCCAA
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CAGACCTGTGACAAGTGAACACCATCATCTGGGGCTCATTACAGACCTGGTACACCTGCACAGGGTGT
ATTACCGCTGTACAGTAAGTGCTTGAACCTCATCTCCAAGCCCTGTGTGAGCTCCAAAGTCAGCCACCA
AGCTGAATACGAACTGAACATCTGCCCTGAGACAGGGCTGGACAGCCAGGATTACCGCTGTGCCGAGTGC
CGGGCGCCCATCTCTGCGGGGTGCCCCAGTGAGGCCAGGCAGTGGCAGTACACCGGCCAGTACTACT
GCAGCCACTGCCACTGGAACGACCTGGCTGTGATCCCTGCACGCGTTGTACACAAGTGGGACTTTGAGCC
TCGAAAGTTTCTCGCTGCAGCATGCGTACCTGGCGTGATGGTGTCTCGCCCGTACTCAGGCTCCGG
GAGATCAACCCCTGCTGTTTCTGCTACGCTACGTGGAGGAGCTGGTGGAGATTGCAAGCTGCGCCAGGACATCC
TGCTCATGAAGCCGTAATCATACCTGCAAGGAGGCCATGGAGGCTCGTCTGCTGCTGCAGCTCCAGGA
TCGGCAGCATTTTGTGGAGAACGACGAGATGACTCTGTCCAGGACCTCCTGGACGTGCATGCCGGCCGC
CTGGGCTGCTCGCTCACCAGATCCACACGCTCTTCGCAAGCACATCAAGCTGGACTGCGAGCGGTGCC
AGGCCAAGGGCTTCGTGTGTGAGCTCTGCAGAGAGGGCGAGTGTGTTCCCGTTTCGACAGCCACAGTCT
TGTGTGCGCCGACTGCTCCGCGGTCTTCCACAGGACTGCTACTACGACAAGTCCACCACTTGTCCCAAG
TGTGCCCGGCTCAGCTGAGGAAGCAGTCTGCTTCCAGGAGCCAGGTCCCGATGTGGAGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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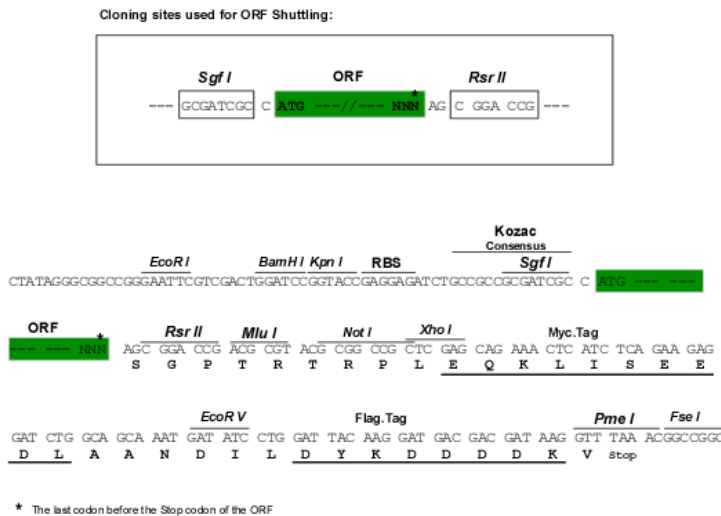
Protein Sequence: >RC234103 representing NM_001242816
 Red=Cloning site Green=Tags(s)

MEYDEKLARFRQAHLNPFNKQSGPRQHEQGPGEVDPVTPEEALPELPPGEPEFRCPERVMDLGLSEDF
 SRPVLRQAIEECKQVILELPEQSEKQKDAVRLIHLRLKQLKDPNEDEPNIRVLLLEHRFYKEKSKSVK
 QTCDCNTIIWGLIQTWYCTGCYYRCHSKCLNLISKPCVSSKVS HQAEYELNICPETGLDSQDYRCAEC
 RAPISLRGVPSEARQCDYTGQYYCSHCHWNDLAVIPARVVHNWDFEPRKVSRCMSRYLALMVS RPVLR
 EINPLLF SYVEELVEIRKLRQDILLMKPYFITCREAMEARLLLQLQDRQHFVENDEMYSVQDLLDVHAGR
 LGCSL TEIHTLFAKHILKDCERCQAKGFVCELCREGDVLPFD SHTSVCADCSAVFHRDCYYDNSTTCPK
 CARLSLRKQSLFQEPGPDVEA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001242816

ORF Size: 1323 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_001242816.2](#)

RefSeq Size: 3632 bp

RefSeq ORF: 1326 bp

Locus ID: 54849

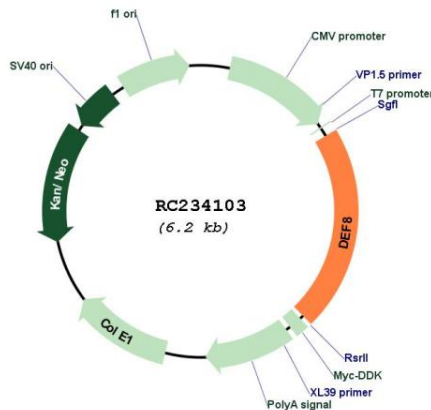
UniProt ID: [Q6ZN54](#)

Cytogenetics: 16q24.3

MW: 51.7 kDa

Gene Summary: Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts. Involved in bone resorption.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC234103