

Product datasheet for **RC224606**

DEF8 (NM_017702) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DEF8 (NM_017702) 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: >RC224606 representing NM_017702
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAATATGATGAGAAGCTGGCCCGTTCCGGCAGGCCACCTCAACCCCTTCAACAAGCAGTCTGGGC
CGAGACAGCATGAGCAGGGCCCTGGGGAGGAGTCCCAGCAGTCACTCCTGAAGAGGCCCTGCCTGAGCT
GCCCCCTGGGGAGCCGGAATCCGCTGCCCTGAACCGTGATGGATCTCGGCCTGTCTGAGGACCACTTC
TCCCGCCCTGTGGTCTGTTCTGGCCCTGACGTCCAGCAGCTGCGGCAGGCCGATCGAGGAGTGCAAGC
AGGTGATTTCTGGAGCTGCCGAGCAGTCGGAGAAGCAGAAGGATGCCGTGGTGGCAGCTATCCACCTCCG
GCTGAAGCTCCAGGAGCTGAAGGACCCCAATGAGGATGAGCCAAACATCCGAGTGCTCCTTGAGCACCGC
TTTTACAAGGAGAAGAGCAAGAGCGTCAAGCAGACCTGTGACAAGTGTAAACCATCATCTGGGGGCTCA
TTCAGACCTGGTACACCTGCACAGTGGGCCGAGACCCAGACGAGGAGTGAGGAATGAGAGAGACCAAG
TTCCTGCCTCCGCTGGGCTCACATTCAGATG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224606 representing NM_017702
Red=Cloning site Green=Tags(s)

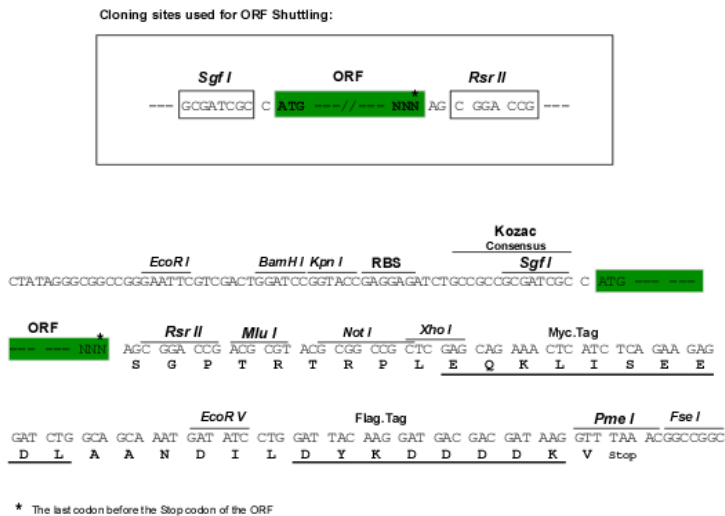
MEYDEKLARFRQAHLNPFNKQSGPRQHEQGPGEVDPVTPEEALPELPPGEPEFRPCPERVMDLGLSEDF
SRPVGLFLASDVQQLRQAIIEECKQVILELPEQSEKQKDAVVRILHLRLKQLKDPNEDEPNIRVLLLEHR
FYKEKSKSVKQTCDKCNTIIWGLIQTWYCTGGPRPRRGVNRERDQSSCLRWAHIQM

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII



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Cloning Scheme:


ACCN: NM_017702

ORF Size: 591 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_017702.4](#)

RefSeq Size: 921 bp

RefSeq ORF: 594 bp

Locus ID: 54849

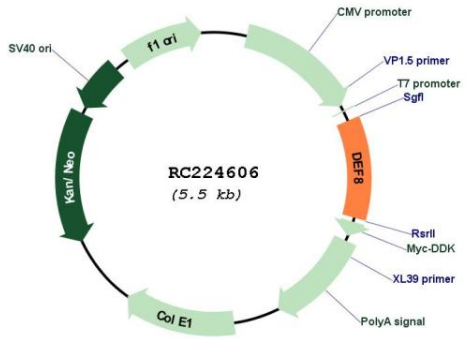
UniProt ID: [Q6ZN54](#)

Cytogenetics: 16q24.3

MW: 22.8 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 RC224606