

## Product datasheet for RC233411

### DEF8 (NM\_001242822) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: DEF8 (NM\_001242822) 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: >RC233411 representing NM\_001242822  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAATATGATGAGAAGCTGGCCCGTTCCGGCAGGCCACCTCAACCCCTTCAACAAGCAGTCTGGGC  
CGAGACAGCATGAGCAGGGCCCTGGGGAGGAGTCCCAGCCTGACTCCTGAAGAGGCCCTGCCTGAGCT  
GCCCCCTGGGGAGCCGGAATCCGCTGCCCTGAACCGTGATGGATCTCGGCCTGTCTGAGGACCACTTC  
TCCCGCCCTGTGGTCTGTTCTGGCCCTGACGTCCAGCAGCTGCGGCAGGCCGATCGAGGAGTGCAAGC  
AGGTGATCTGGAGCTGCCGAGCAGTCGGAGAAGCAGAAGGATGCCGTGGTGGCAGCTATCCACCTCCG  
GCTGAAGCTCCAGGAGCTGAAGGACCCCAATGAGGATGAGCCAAACATCCGAGTGTCTTGGACCCGC  
TTTTACAAGGAGAAGAGCAAGAGCGTCAAGCAGACCTGTGACAAGTGTAAACCATCATCTGGGGCTCA  
TTCAGACCTGGTACACCTGCACAGTGGGCCGAGACCCAGACGAGGAGTGAAGATGAGAGAGACCAAG  
TTCCTGCCTCCGCTGGGCTCACATTCAGATG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233411 representing NM\_001242822  
Red=Cloning site Green=Tags(s)

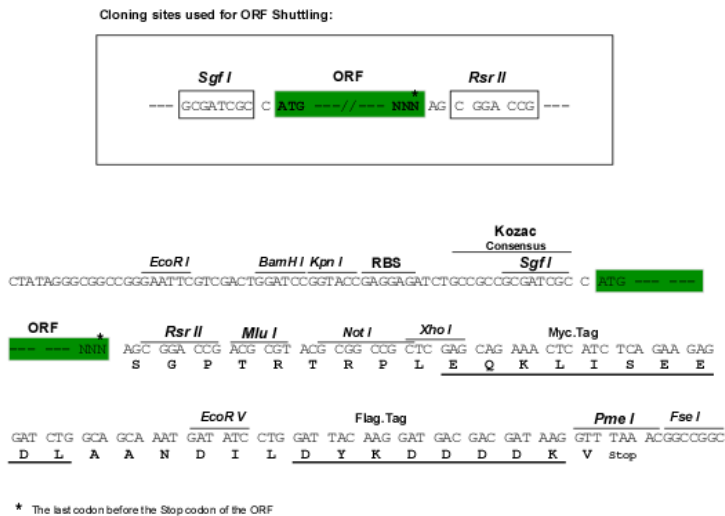
MEYDEKLARFRQAHLNPFNKQSGPRQHEQGPGEVDPVTPEEALPELPPGEPEFRPCPERVMDLGLSEDF  
SRPVGFLASDVQQLRQAIIEECKQVILELPEQSEKQKDAVVRILHLRLKQLKDPNEDEPNIRVLLLEHR  
FYKEKSKSVKQTCDKCNTIIWGLIQTWYCTGGPRPRRGVNRERDQSSCLRWAHIQM

**SGP**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII



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**Cloning Scheme:**


**ACCN:** NM\_001242822

**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\\_001242822.2](#)

**RefSeq Size:** 929 bp

**RefSeq ORF:** 594 bp

**Locus ID:** 54849

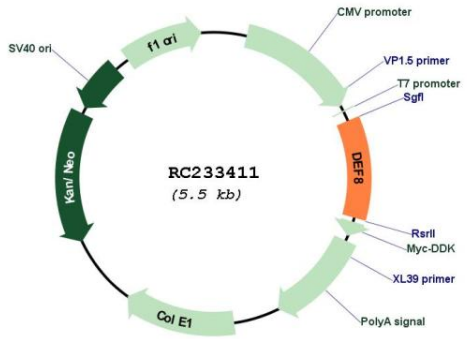
**UniProt ID:** [Q6ZN54](#)

**Cytogenetics:** 16q24.3

**MW:** 23.4 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 RC233411