

Product datasheet for RC234086

DEF8 (NM_001242819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEF8 (NM_001242819) 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:	>RC234086 representing NM_001242819 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGGATCGCC

ATGGAATATGATGAGAAGCTGGCCGTTTCCGGCAGGCCACCTCAACCCCTTCAACAAGCAGTCTGGGC
CGAGACAGCATGAGCAGGGCCCTGGGGAGGAGTCCCAGCAGTCACTCCTGAAGAGGCCCTGCCTGAGCT
GCCCCCTGGGGAGCCGGAATCCGCTGCCCTGAACGCGTGATGGATCTCGGCCTGTCTGAGGACCACTTC
TCCCGCCCTGTGGTCTGTTCCCTGGCCCTGACGTCCAGCAGCTGCGGCAGGCCGATCGAGGAGTGCAAGC
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GCTGAAGCTCCAGGAGCTGAAGGACCCCAATGAGGATGAGCCAAACATCCGAGTGTCTTGGACCCGC
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TTCAGACCTGGTACACCTGCACAGGGTGTATTACCGCTGTACAGTAAGTGCTTGAACCTCATCTCCAA
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AGCTCTGCAGAGAGGGGACGTGCTGTTCCCGTTCGACAGCCACACGCTGTGTGCGCCGACTGTCCCG
GGTCTTCCACAGGAGTGTACTACGACAACTCCACCATTGTCCCAAGTGTGCCCGGCTCAGCCTGAGG
AAGCAGTGCCTCTTCCAGGAGCCAGTCCCGATGTGGAGGCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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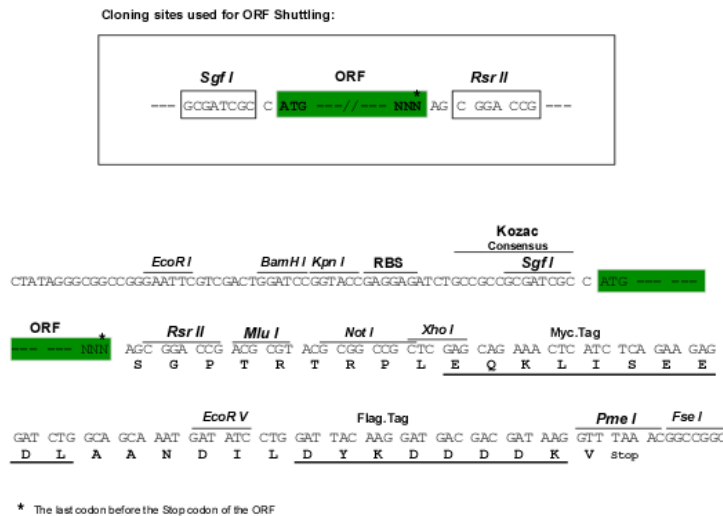
Protein Sequence: >RC234086 representing NM_001242819
 Red=Cloning site Green=Tags(s)

MEYDEKLARFRQAHLNPNFNKQSGPRQHEQGPGEVDPVTPEEALPELPPGEPEFRCPERVMDLGLSEDFH
 SRPVGLFLASDVQQLRQAIIEECKQVILELPEQSEKQKDAVVRLIHLRLKLQELKDPNEDEPNIRVLLLEHR
 FYKEKSKSVKQTCDKCNTIIWGLIQTWYTCTGCYYRCHSKCLNLSKPCVSSKVSHQAEYELNICPETGL
 DSQDYRCAECRAPISLRGVPSEARQCDYTGQYYCSHCHWNDLAVIPARVVHNWDFEPRKVSRCSMRYLAL
 MVSRPVLRRLREINPLLFYVEELVEIRKLRQDILLMKPYFITCREAMEARLLLQDLLDVHAGRLGCSLTE
 IHTLFAKHIKLDCERCQAKGFVCELCREGDVLPFDSHTSVCADCSAVFHRDCYDNDSTTCPKCARLSLR
 KQSLFQEPGPDVEA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001242819

ORF Size: 1302 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_001242819.1](#), [NP_001229748.1](#)

RefSeq Size: 3524 bp

RefSeq ORF: 1305 bp

Locus ID: 54849

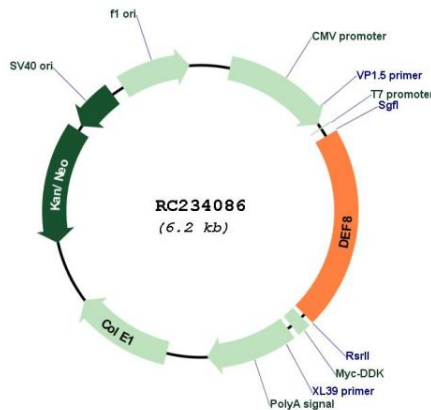
UniProt ID: [Q6ZN54](#)

Cytogenetics: 16q24.3

MW: 50.6 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 RC234086