

Product datasheet for **RC221175**

DEFB106B (NM_001040704) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DEFB106B (NM_001040704) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DEFB106B
Synonyms: BD-6; DEFB-6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC221175 representing NM_001040704
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGACTTTCCTTTCTCTTTGCCGTGCTCTTTCTGACCCAGCCAAGAATGCATTTTTTGATG
AGAAATGCAACAACTTAAAGGGACATGCAAGAACAATTGCGGGAAAAATGAAGAAGCTTATTGCTCTCTG
CCAGAAGTCTCTGAAATGCTGTCGGACCATCCAGCCATGTGGGAGCATTATAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221175 representing NM_001040704
Red=Cloning site Green=Tags(s)

MRTFLFLFAVLFFLTPAKNAFFDEKCNKLGKCKNCGKNEELIALCQKSLKCCRTIQPCGSIID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8101_c10.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001040704

ORF Size: 195 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_001040704.1](#), [NP_001035794.1](#)

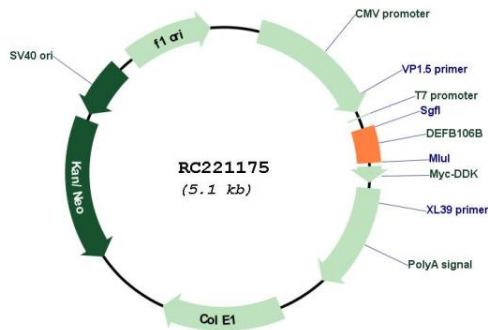
RefSeq Size: 303 bp

RefSeq ORF: 198 bp

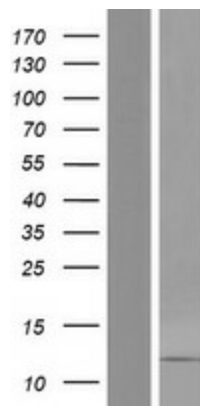
Locus ID: 503841
UniProt ID: [Q8N104](#)
Cytogenetics: 8p23.1
MW: 7.4 kDa

Gene Summary: Defensins form a family of antimicrobial and cytotoxic peptides made by neutrophils. Defensins are short, processed peptide molecules that are classified by structure into three groups: alpha-defensins, beta-defensins and theta-defensins. All beta-defensin genes are densely clustered in four to five syntenic chromosomal regions. Chromosome 8p23 contains at least two copies of the duplicated beta-defensin cluster. This duplication results in two identical copies of defensin, beta 106, DEFB106A and DEFB106B, in head-to-head orientation. This gene, DEFB106B, represents the more telomeric copy. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RC221175



Western blot validation of overexpression lysate (Cat# [LY420748]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221175 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).