

## Product datasheet for **RC229493**

### DEFB121 (NM\_001171832) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DEFB121 (NM\_001171832) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DEFB121  
**Synonyms:** DEFB21; ESC42RELC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC229493 representing NM\_001171832  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCAAGAAGTCAAGGAAGTCATGAAATGTTGGGCAAGTCAGGCAGGTGCAGAACAACATGTAAAG  
AAAGTGAAGTATACTATATATTGCAAACTGAGGCTAAGTGTGTGGATCCCAAGTATGTACCTGT  
AAAACAAAATTAACAGACACAAATACAAGCCTGGAATCAACTTCTGCAGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC229493 representing NM\_001171832  
**Red**=Cloning site **Green**=Tags(s)

MFQEVKEVMKCGKSGRCRTTCKESEVYYILCKTEAKCCVDPKYVPVKPKLTDNTSLESTSAV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_001171832

**ORF Size:** 192 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\\_001171832.1](#), [NP\\_001165303.1](#)

**RefSeq ORF:** 195 bp

**Locus ID:** 245934

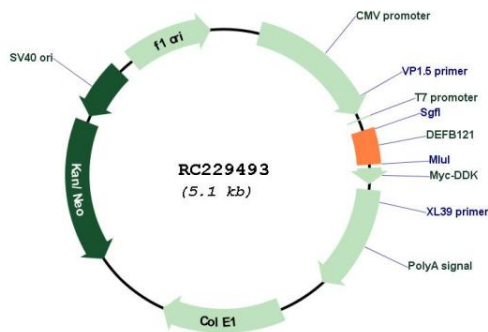
**Cytogenetics:** 20q11.21

**Protein Families:** Secreted Protein

**MW:** 7.7 kDa

**Gene Summary:** This gene encodes a member of the beta subfamily of defensins. Beta-defensins are antimicrobial peptides that protect tissues and organs from infection by a variety of microorganisms. This gene is found in a cluster with other beta-defensin genes on the long arm of chromosome 20. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014]

**Product images:**



Circular map for RC229493