

## Product datasheet for RC211397

### DEFB114 (NM\_001037499) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DEFB114 (NM\_001037499) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DEFB114  
**Synonyms:** DEFB-14; DEFB14  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC211397 representing NM\_001037499  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGATCTTTTACTATCTCCATTTTCTGTGTTATGTGACCTTCATTCTACCAGCCACATGTACCTTGG  
 TGAATGCTGATCGTTGCACCAACGTTACGGTCGTTGTAAAGAGACTGTCTTGAGAGTGAAGCAAAAT  
 AGACATATGTTCTTACCAAGAAAATTTGCTGCACTGAGAAATTGTATGAAGAAGATGATATGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC211397 representing NM\_001037499  
 Red=Cloning site Green=Tags(s)

MRIFYYLHFLCYVTFILPATCTLVNADRCKRYGRCKRDCLESEKQIDICSLPRKICCTEKL YEEDDMF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8004\\_h07.zip](https://cdn.origene.com/chromatograms/mk8004_h07.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001037499

**ORF Size:** 207 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

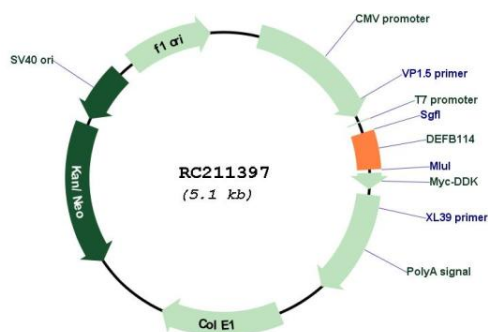
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

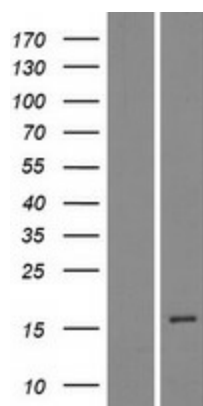
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001037499.2</u>
<b>RefSeq Size:</b>	210 bp
<b>RefSeq ORF:</b>	210 bp
<b>Locus ID:</b>	245928
<b>UniProt ID:</b>	<u>Q30KQ6</u>
<b>Cytogenetics:</b>	6p12.3
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>MW:</b>	8.1 kDa
<b>Gene Summary:</b>	<p>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. The protein encoded by this gene is a beta-defensin with antimicrobial activity against E. coli, S. aureus, and C. albicans. The encoded protein also binds and neutralizes lipopolysaccharide (LPS), a factor involved in inflammatory diseases and male reproductive issues. [provided by RefSeq, Nov 2014]</p>

## Product images:



Circular map for RC211397



Western blot validation of overexpression lysate (Cat# [LY421915]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211397 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).