

## Product datasheet for **RC223222**

### beta Defensin 3 (DEFB103B) (NM\_018661) Human Tagged ORF Clone

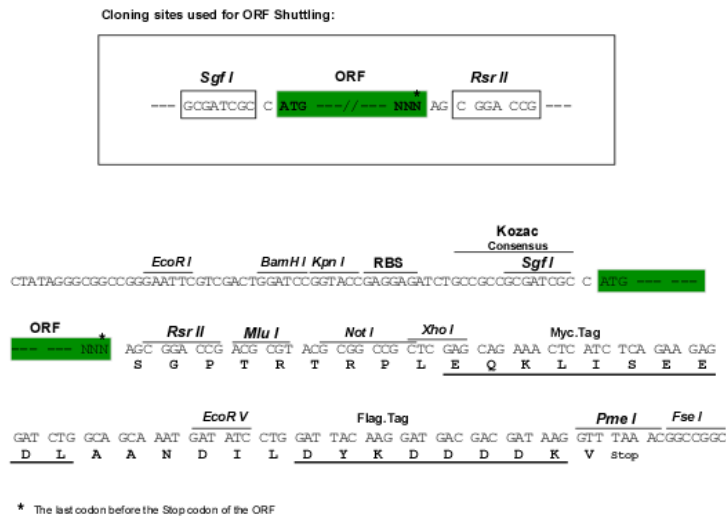
#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta Defensin 3 (DEFB103B) (NM_018661) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	beta Defensin 3
Synonyms:	BD-3; DEFB-3; DEFB3; DEFB103; HBD-3; HBD3; HBP-3; HBP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223222 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)  TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <b>CGATCGCC</b>  ATGAGGATCCATTATCTTCTGTTTGCTTTGCTCTTCTGTTTTGGTGCCTGTTCCAGGTCATGGAGGAA TCATAAACACATTACAGAAATATTATTGCAGAGTCAGAGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCC AAAGGAGAACAGATCGGCAAGTGTCTGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAA  AG <b>CGGACCG</b> ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC223222 protein sequence Red=Cloning site Green=Tags(s)  MRIHYLLFALLFLFLVPVPGHGGIINTLQKYCYRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRKK  SGP <b>TRTRPLEQKLI</b> SEEDLAANDILDYKDDDDKV
Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6617_a03.zip">https://cdn.origene.com/chromatograms/mk6617_a03.zip</a>
Restriction Sites:	Sgfl-RsrII



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Cloning Scheme:



ACCN: NM\_018661

ORF Size: 201 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.

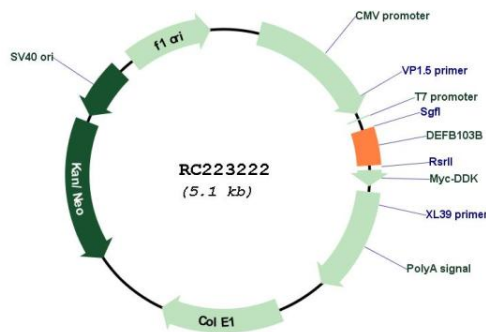
RefSeq: [NM\\_018661.4](#)

RefSeq Size: 518 bp

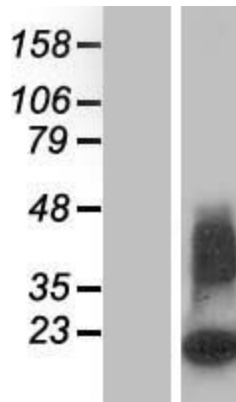
RefSeq ORF: 204 bp

**Locus ID:** 55894  
**UniProt ID:** [P81534](#)  
**Cytogenetics:** 8p23.1  
**Protein Families:** Secreted Protein, Transmembrane  
**MW:** 7.7 kDa  
**Gene Summary:** Defensins form a family of microbicidal and cytotoxic peptides made by neutrophils. Members of the defensin family are highly similar in protein sequence. This gene encodes defensin, beta 103, which has broad spectrum antimicrobial activity and may play an important role in innate epithelial defense. [provided by RefSeq, Oct 2014]

**Product images:**



Circular map for RC223222



Western blot validation of overexpression lysate (Cat# [LY412968]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223222 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).