

Product datasheet for **RC219487**

BD2 (DEFB4A) (NM_004942) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BD2 (DEFB4A) (NM_004942) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BD2
Synonyms: BD-2; DEFB-2; DEFB2; DEFB4; DEFB102; HBD-2; SAP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC219487 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGGTCTTGTATCTCCTCTTCTCGTTCCTTTCATATTCCTGATGCCTCTTCCAGGTGTTTTGGTG
GTATAGGCGATCCTGTTACCTGCCTTAAGAGTGGAGCCATATGTCATCCAGTCTTTGCCCTAGAAGGTA
TAAACAAATTGGCACCTGTGGTCTCCCTGGAACAAAATGCTGCAAAAAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219487 protein sequence
Red=Cloning site Green=Tags(s)
MRVLYLLFSFLIFLMLPLPGVFGGIGDPVTCLKSGAICHVPVFCPRRYKQIGTCGLPGTKCCKKP
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6473_b04.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004942

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).

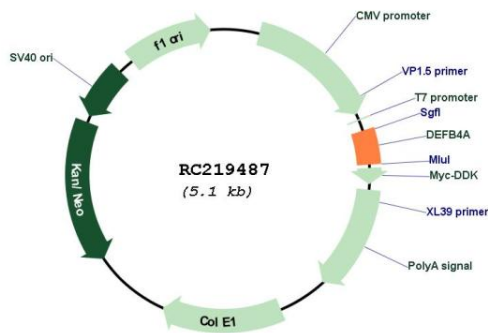
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

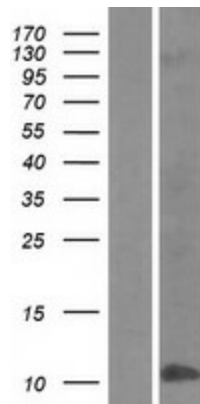
RefSeq: [NM_004942.4](#)

RefSeq Size:	460 bp
RefSeq ORF:	195 bp
Locus ID:	1673
UniProt ID:	O15263
Cytogenetics:	8p23.1
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	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 4, an antibiotic peptide which is locally regulated by inflammation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC219487



Western blot validation of overexpression lysate (Cat# [LY417643]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219487 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).