

Product datasheet for RC215737

BD4 (DEFB104A) (NM_080389) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: BD4 (DEFB104A) (NM 080389) Human Tagged ORF Clone Tag: Myc-DDK Symbol: BD4 Synonyms: BD-4; DEFB-4; DEFB4; DEFB104; hBD-4 **Mammalian Cell** Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) >RC215737 ORF sequence **ORF** Nucleotide Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGAGACTTGTGCTGCTATTAGCCATTTCTCTTCTACTCTATCAAGATCTTCCAGTGAGAAGCGAAT TTGAATTGGACAGAATATGTGGTTATGGGACTGCCCGTTGCCGGAAGAAATGTCGCAGCCAAGAATACAG AATTGGAAGATGTCCCAACACCTATGCATGCTGTTTGAGAAAATGGGATGAGAGCTTACTGAATCGTACA AAACCC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA >RC215737 protein sequence **Protein Sequence:** Red=Cloning site Green=Tags(s) MQRLVLLLAISLLLYQDLPVRSEFELDRICGYGTARCRKKCRSQEYRIGRCPNTYACCLRKWDESLLNRT KΡ TRTRPLEQKLISEEDLAANDILDYKDDDDKV Chromatograms: https://cdn.origene.com/chromatograms/mk6450 a10.zip **Restriction Sites:** Sgfl-Mlul



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OriGene Technologies, Inc.

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Cloning Scheme:



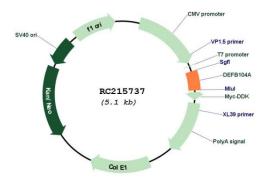
* The last codon before the Stop codon of the ORF

ACCN:	NM_080389
ORF Size:	216 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 080389.3</u>
RefSeq Size:	281 bp
RefSeq ORF:	219 bp
Locus ID:	140596

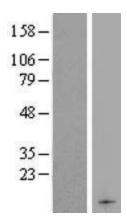
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	BD4 (DEFB104A) (NM_080389) Human Tagged ORF Clone – RC215737
UniProt ID:	<u>Q8WTQ1</u>
Cytogenetics:	8p23.1
Protein Families	: Secreted Protein
MW:	8.5 kDa
Gene Summary:	Defensins form a family of antimicrobial and cytotoxic peptides made by neutrophils. 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 104, DEFB104A and DEFB104B, in head-to-head orientation. This gene, DEFB104A, represents the more centromeric copy. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RC215737



Western blot validation of overexpression lysate (Cat# [LY409182]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215737 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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