

## Product datasheet for **RC218014**

### DEFB131A (NM\_001040448) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	DEFB131A
Synonyms:	DEFB-31; DEFB131
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;RC218014 representing NM_001040448            Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC            GCC<b>CGATCGCC</b></p> <p>ATGAGGGTCTTGTCTTTTGTCTTTGGAGTCCTTTCCTTGATGTTACAGTTCCTCCAGGCAGAAGCTTCA            TTTCTAATGATGAATGTCCTTCAGAATATTATCATTGCAGACTGAAGTGAATGCTGATGAACATGCAAT            TAGATACTGTGCTGACTTCAGCATCTGCTGAACTGAAGATCATTGAAATTGACGGACAAAAGAAGTGG</p> <p><b>ACGCGT</b>ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT            ACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>&gt;RC218014 representing NM_001040448            Red=Cloning site Green=Tags(s)</p> <p>MRVLFFVFGVLSLMFTVPPGRSFISNDECPSEYYHCRCLKNADEHAIRYCADFSICCKLKIIEIDGQKKW</p> <p><b>TR</b>TRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk8005_b10.zip">https://cdn.origene.com/chromatograms/mk8005_b10.zip</a>
Restriction Sites:	SgfI-MluI


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**Cloning Scheme:**


**ACCN:** NM\_001040448

**ORF Size:** 210 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).

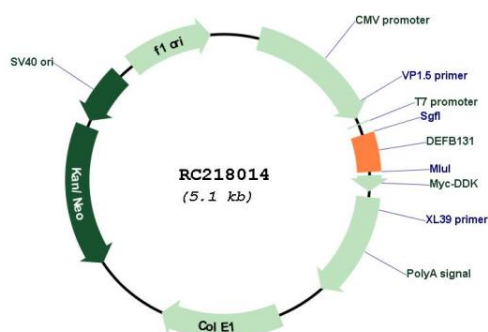
**Reconstitution Method:**

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.

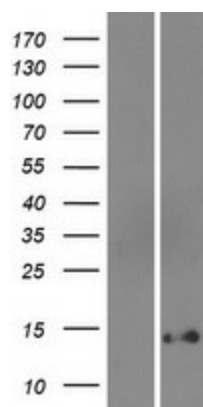
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	<u>NM_001040448.1, NP_001035538.1</u>
RefSeq Size:	213 bp
RefSeq ORF:	213 bp
Locus ID:	644414
UniProt ID:	<u>P59861</u>
Cytogenetics:	4p16.1
Protein Families:	Secreted Protein
MW:	8 kDa
Gene Summary:	Defensins are cysteine-rich cationic polypeptides that are important in the immunologic response to invading microorganisms. The antimicrobial protein encoded by this gene is secreted and is a member of the beta defensin protein family. Beta defensin genes are found in several clusters throughout the genome, with this gene mapping to a cluster at 4p16. [provided by RefSeq, Nov 2014]

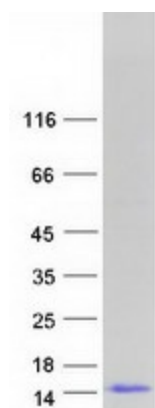
## Product images:



Circular map for RC218014



Western blot validation of overexpression lysate (Cat# [LY421765]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218014 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DEFB131A protein (Cat# [TP318014]). The protein was produced from HEK293T cells transfected with DEFB131A cDNA clone (Cat# RC218014) using MegaTran 2.0 (Cat# [TT210002]).