

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC213236

Neutrophil defensin 4 (DEFA4) (NM_001925) Human Tagged ORF Clone

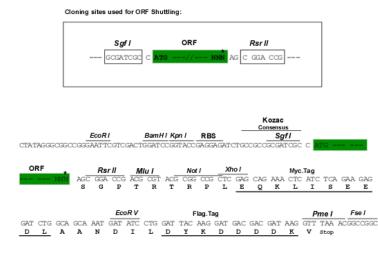
Product data:

Product Type:	Expression Plasmids
Product Name:	Neutrophil defensin 4 (DEFA4) (NM_001925) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neutrophil defensin 4
Synonyms:	DEF4; HNP-4; HP-4; HP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC213236 representing NM_001925 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAGGATTATCGCCCTCCTCGCTGCTATTCTCTTGGTAGCCCTCCAGGTCCGGGCAGGCCCACTCCAGG CAAGAGGTGATGAGGCTCCAGGCCAGG
	AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC213236 representing NM_001925 <mark>Red</mark> =Cloning site Green=Tags(s)
	MRIIALLAAILLVALQVRAGPLQARGDEAPGQEQRGPEDQDISISFAWDKSSALQVSGSTRGMVCSCRLV FCRRTELRVGNCLIGGVSFTYCCTRVD
	SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk8115_a10.zip
Restriction Sites:	Sgfl-RsrII



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Cloning Scheme:



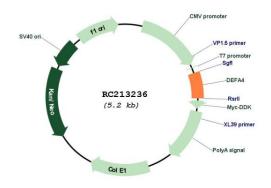
* The last codon before the Stop codon of the ORF

ACCN:	NM_001925
ORF Size:	291 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 001925.3</u>
RefSeq Size:	542 bp
RefSeq ORF:	294 bp

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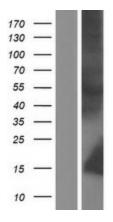
	Neutrophil defensin 4 (DEFA4) (NM_001925) Human Tagged ORF Clone – RC213236
Locus ID:	1669
UniProt ID:	<u>P12838</u>
Cytogenetics:	8p23.1
Domains:	Defensin_propep, DEFSN, defensins
Protein Families:	Secreted Protein
MW:	10.5 kDa
Gene Summary:	Defensins are a family of antimicrobial and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia of mucosal surfaces such as those of the intestine, respiratory tract, urinary tract, and vagina. Members of the defensin family are highly similar in protein sequence and distinguished by a conserved cysteine motif. Several alpha defensin genes are clustered on chromosome 8. This gene differs from other genes of this family by an extra 83-base segment that is apparently the result of a recent duplication within the coding region. The protein encoded by this gene, defensin, alpha 4, is found in the neutrophils; it exhibits corticostatic activity and inhibits corticotropin stimulated corticosterone production. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RC213236

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Western blot validation of overexpression lysate (Cat# [LY419660]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213236 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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