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Product datasheet for RC221558

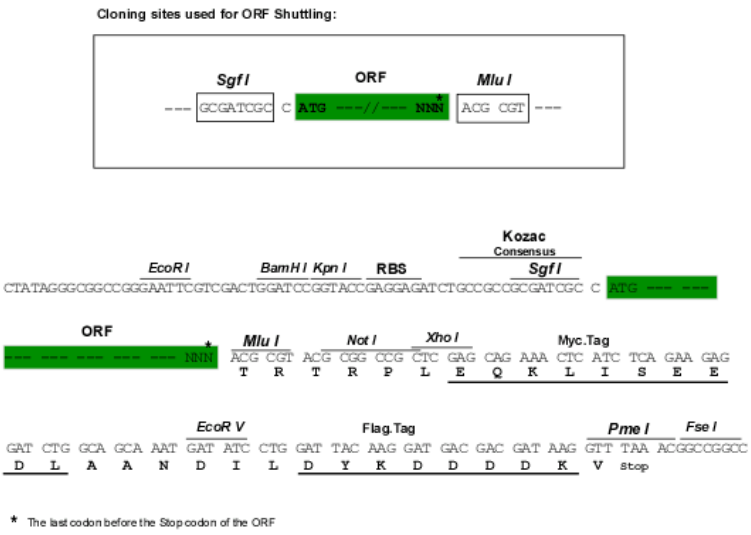
DEFB118 (NM_054112) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEFB118 (NM_054112) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DEFB118
Synonyms:	C20orf63; DEFB-18; ESC42; ESP13.6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221558 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAACTCCTGCTGCTGGCTCTTCCTATGCTTGTGCTCCTACCCCAAGTGATCCCAGCCTATAGTGGTG AAAAAAAATGCTGGAACAGATCAGGGCACTGCAGGAAACAATGCAAAGATGGAGAAGCAGTGAAAGATAC ATGCAAAAATCTTCGAGCTTGCTGCATTCCATCCAATGAAGACCACAGGCGAGTTCCTGCGACATCTCCC ACACCCTTGAGTGACTCAACACCAGGAATTATTGATGATATTTTAACAGTAAGGTTCACGACAGACTACT TTGAAGTAAGCAGCAAGAAAGATATGGTTGAAGAGTCTGAGGCGGGAAGGGGAACTGAGACCTCTCTTCC AAATGTTCACCATAGCTCA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC221558 protein sequence Red=Cloning site Green=Tags(s) MKLLLLALPMLVLLPQVIPAYSGEKKCWNRSGHCRKQCKDGEAVKDTCKNLRACCIPSNEDHRRVPATSP TPLSDSTPGIIDDILTVRFTTDYFEVSSKKDMVEESEAGRGTETSLPNVHHSS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6463_d03.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_054112

ORF Size: 369 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_054112.3

RefSeq Size: 1158 bp

RefSeq ORF: 372 bp

Locus ID: 117285

UniProt ID: Q96PH6

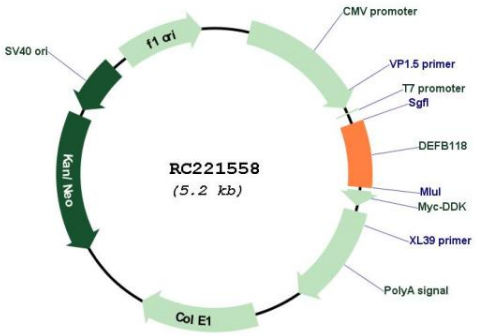
Cytogenetics: 20q11.21

Protein Families: Secreted Protein

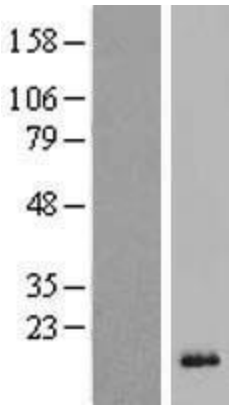
MW: 13.6 kDa

Gene Summary: This gene encodes a member of the beta subfamily of defensins. Beta-defensins are antimicrobial peptides that protect tissues and organs from infection by a variety of microorganisms. Expression of this gene is regulated by androgen, and the encoded protein binds to sperm and exhibits antibacterial activity against E. coli. This gene is found in a cluster with other beta-defensin genes on the long arm of chromosome 20. [provided by RefSeq, Nov 2014]

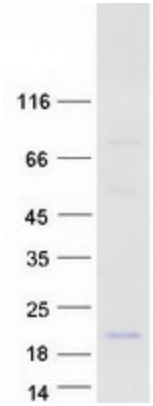
Product images:



Circular map for RC221558



Western blot validation of overexpression lysate (Cat# [LY409287]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221558 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DEFB118 protein (Cat# [TP321558]). The protein was produced from HEK293T cells transfected with DEFB118 cDNA clone (Cat# RC221558) using MegaTran 2.0 (Cat# [TT210002]).