

Product datasheet for RC212030

DEFB125 (NM_153325) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEFB125 (NM_153325) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DEFB125
Synonyms:	DEFB-25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212030 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAATATCCTGATGCTGACCTTCATTATCTGTGGTTGCTAACTCGGGTGACCAAAGGTAGCTTTGAAC
 CCCAAAAATGTTGAAGAATAATGTAGGACATTGCAGAAGACGATGTTTAGATACTGAAAGGTACATACT
 TCTTTGTAGGAACAAGCTATCATGCTGCATTTCTATAATATCACATGAATATACTCGACGACCAGCATTT
 CCTGTGATTACCTAGAGGATATAACATTGGATTATAGTGATGTGGACTCTTTTACTGGTTCCCCAGTAT
 CTATGTTGAATGATCTGATAACATTTGACACAATAAATTTGGAGAAACCATGACACCTGAGACCAATAC
 TCCTGAGACTACTATGCCACCATCCGAGGCCACTACTCCCGAGACTACTATGCCACCATCTGAGACTGCT
 ACTCCGAGACTATGCCACCACCTTCTCAGACAGCTCTTACTCATAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC212030 protein sequence Red=Cloning site Green=Tags(s)
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MNILMLTFIICGLLTRVTKGSFEPQKCKWKNVGHCRRLDTERYILLCRNKLSCCISIIISHEYTRRPAF
 PVIHLEDITLDYSDVDSFTGSPVSMNLITFDTKFGETMTPETNTPETTMPPSEATTPETTMPPSETA
 TSETMPPPSQTALHN

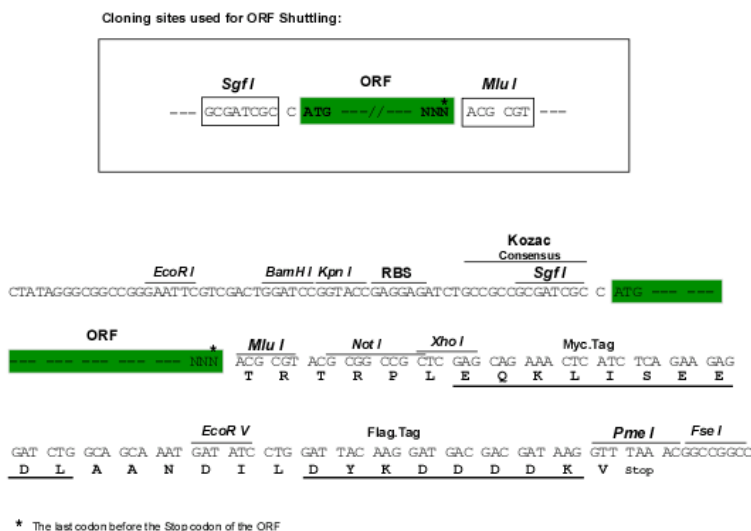
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6440_g07.zip
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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_153325

ORF Size: 468 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_153325.4

RefSeq Size: 709 bp

RefSeq ORF: 471 bp

Locus ID: 245938

UniProt ID: [Q8N687](#)

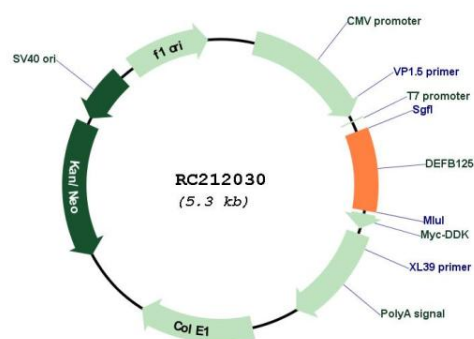
Cytogenetics: 20p13

Protein Families: Secreted Protein

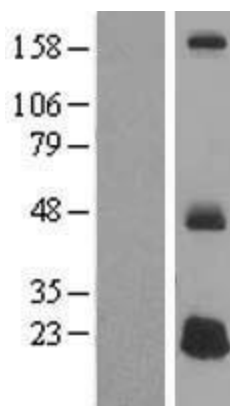
MW: 17.5 kDa

Gene Summary: Defensins are cysteine-rich cationic polypeptides that are important in the host 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 20p13. [provided by RefSeq, Nov 2014]

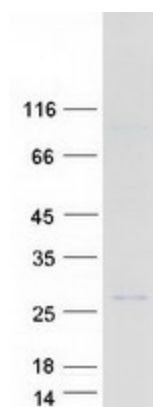
Product images:



Circular map for RC212030



Western blot validation of overexpression lysate (Cat# [LY407046]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212030 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DEFB125 protein (Cat# [TP312030]). The protein was produced from HEK293T cells transfected with DEFB125 cDNA clone (Cat# RC212030) using MegaTran 2.0 (Cat# [TT210002]).