

Product datasheet for **RG208244**

beta Defensin 1 (DEFB1) (NM_005218) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: beta Defensin 1 (DEFB1) (NM_005218) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: beta Defensin 1
Synonyms: BD1; DEFB-1; DEFB101; HBD1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208244 representing NM_005218
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAACTTCCTACCTTCTGCTGTTTACTCTCTGCTTACTTTTGTCTGAGATGGCCTCAGGTGTTAACT
TTCTCACAGGCCTTGGCCACAGATCTGATCATTACAATTGCGTCAGCAGTGGAGGCAATGTCTCTATTC
TGCTGCCGATCTTTACCAAATTC AAGGCACCTGTTACAGAGGAAGCCAAGTGCTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208244 representing NM_005218
Red=Cloning site Green=Tags(s)

MRTSYLLLFTLCLLLSEMASGGNFLTGLGHRSDHYNCVSSGGQCLYSACPIFTKIQGTCTYRGKAKCKK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_005218

ORF Size: 204 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_005218.4](#)

RefSeq Size: 484 bp

RefSeq ORF: 207 bp

Locus ID: 1672

UniProt ID: [P60022](#)

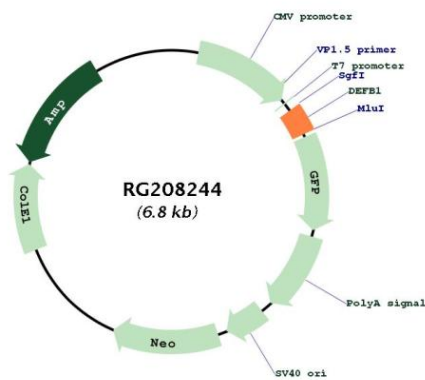
Cytogenetics: 8p23.1

Domains: Defensin_beta

Protein Families: Secreted Protein

Gene Summary: Defensins form a family of microbicidal and cytotoxic peptides made by neutrophils. Members of the defensin family are highly similar in protein sequence. This gene encodes defensin, beta 1, an antimicrobial peptide implicated in the resistance of epithelial surfaces to microbial colonization. This gene maps in close proximity to defensin family member, defensin, alpha 1 and has been implicated in the pathogenesis of cystic fibrosis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208244