

Product datasheet for RG213236

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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: TurboGFP Symbol: DEFA4

Synonyms: DEF4; HNP-4; HP-4; HP4

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG213236 representing NM_001925

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CGCGTGTCGAT

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213236 representing NM_001925

Red=Cloning site Green=Tags(s)

MRIIALLAAILLVALQVRAGPLQARGDEAPGQEQRGPEDQDISISFAWDKSSALQVSGSTRGMVCSCRLV

FCRRTELRVGNCLIGGVSFTYCCTRVD

SGPTRTRRLE - GFP Tag - V

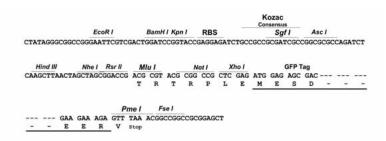
Restriction Sites: Sgfl-Rsrll



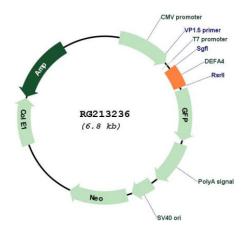


Cloning Scheme:





Plasmid Map:



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. More info



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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: <u>NM 001925.3</u>

RefSeq Size: 542 bp
RefSeq ORF: 294 bp
Locus ID: 1669
UniProt ID: P12838
Cytogenetics: 8p23.1

Domains: Defensin_propep, DEFSN, defensins

Protein Families: Secreted Protein

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]