

Product datasheet for **RG223145**

Defensin alpha 3 (DEFA3) (NM_005217) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Defensin alpha 3 (DEFA3) (NM_005217) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DEFA3
Synonyms: DEF3; HNP-3; HNP3; HP-3; HP3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223145 representing NM_005217
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCAGGCTGAGCCACTCCAGG
CAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCAGAAGTGGTTGTTCCCT
TGCATGGGACGAAAGCTTGGCTCCAAGCATCCAGGCTCAAGGAAAACATGGACTGCTATTGCAGAATA
CCAGCGTGCATTGCAGGAGAACGTGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCT
GC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223145 representing NM_005217
Red=Cloning site Green=Tags(s)
MRTLAILAAILLVALQAQAEPLQARADEVAAAEQIAADIPEVVVSLAWDESLAPKHPGSRKNMDCYCRI
PACIAGERRYGTCTIYQGRLLWAFCC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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_005217.4
RefSeq Size:	487 bp
RefSeq ORF:	285 bp
Locus ID:	1668
UniProt ID:	P59666
Cytogenetics:	8p23.1
Domains:	Defensin_propep, DEFSN, defensins
Protein Families:	Druggable Genome, 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. The protein encoded by this gene, defensin, alpha 3, is found in the microbicidal granules of neutrophils and likely plays a role in phagocyte-mediated host defense. Several alpha defensin genes are clustered on chromosome 8. This gene differs from defensin, alpha 1 by only one amino acid. This gene and the gene encoding defensin, alpha 1 are both subject to copy number variation. [provided by RefSeq, Oct 2014]