

## Product datasheet for **TP318421M**

### alpha Defensin 1 (DEFA1) (NM\_004084) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human defensin, alpha 1 (DEFA1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218421 representing NM_004084 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MRTLAILAAILLVALQAQAEPLQARADEVAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMDCYCRI PACIAGERRYGTTCIYQGRLWAFCC  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	10 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_004075</a>
Locus ID:	1667
UniProt ID:	<a href="#">P59665</a>
RefSeq Size:	490
Cytogenetics:	8p23.1



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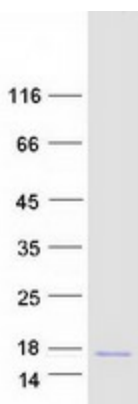
RefSeq ORF: 282

Synonyms: DEF1; DEFA2; HNP-1; HP-1; HP1; MRS

**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 1, 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 3 by only one amino acid. This gene and the gene encoding defensin, alpha 3 are both subject to copy number variation. [provided by RefSeq, Oct 2014]

**Protein Families:** Druggable Genome, Secreted Protein

### Product images:



Coomassie blue staining of purified DEFA1 protein (Cat# [TP318421]). The protein was produced from HEK293T cells transfected with DEFA1 cDNA clone (Cat# [RC218421]) using MegaTran 2.0 (Cat# [TT210002]).