

Product datasheet for **SC304891**

alpha 5 Defensin (DEFA5) (NM_021010) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 5 Defensin (DEFA5) (NM_021010) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha 5 Defensin
Synonyms:	DEF5; HD-5
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_021010 edited TTCCACTCCTGCTCTCCCTCCTGCAGGTGACCCAGCCATGAGGACCATCGCCATCCTTG CTGCCATTCTCCTGGTGGCCCTGCAGGCCAGGCTGAGTCACTCCAGGAAAGAGCTGATG AGGCTACAACCCAGAAGCAGTCTGGGGAAGACAACCAGGACCTTGTATCTCCTTTGCAG GAAATGGACTCTCTGCTCTTAGAACCTCAGGTTCTCAGGCAAGAGCCACCTGCTATTGCC GAACTGGCCGTTGTGCTACCC: GTGAGTCCCTCTCCGGGTGTGTGAAATCAGTGGCCGC CTCTACAGACTCTGCTGTCGCTGAGCTTCTAGATAGAAACCAAAGCAGTGCAAGATTCA GTTCAAGGTCCTGAAAAAAGAAAAACATTTTACTCTGTGTACCTTGTGCTTTCTAAATT TCTCTCTCCAAAATAAAGTTCAAGCA
Restriction Sites:	Please inquire
ACCN:	NM_021010
Insert Size:	440 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_021010.1.
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).



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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_021010.1](#), [NP_066290.1](#)

RefSeq Size: 449 bp

RefSeq ORF: 285 bp

Locus ID: 1670

UniProt ID: [Q01523](#)

Cytogenetics: 8p23.1

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 of the alpha defensin genes appear to be clustered on chromosome 8. The protein encoded by this gene, defensin, alpha 5, is highly expressed in the secretory granules of Paneth cells of the ileum. [provided by RefSeq, Oct 2014]