

Product datasheet for **SC116850**

Defensin alpha 3 (DEFA3) (NM_005217) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Defensin alpha 3 (DEFA3) (NM_005217) Human Untagged Clone
Tag:	Tag Free
Symbol:	Defensin alpha 3
Synonyms:	DEF3; HNP-3; HNP3; HP-3; HP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116850 sequence for NM_005217 edited (data generated by NextGen Sequencing) ATGAGGACCCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCAGGCTGAG CCACTCCAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATC CCAGAAGTGTTGTTCCCTTGATGGGACGAAAGCTTGCTCCAAGCATCCAGGCTCA AGGAAAAACATGGACTGCTATTGCAGAATACCAGCGTGCATTGCAGGAGAACGTCGCTAT GGAACCTGCATCTACCAGGAAGACTCTGGCATTCTGCTGCTGA Clone variation with respect to NM_005217.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005217 unedited</p> <pre> ATTTTGGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGGACAGAGGACTG CTGTCTGCCCTCTCTGGTCACCCCTGCCTAGCTAGAGGATCTGTGACCCCAGCCATGAGGA CCCTCGCCATCCTTGGCTGCCATTCTCCTGGTGGCCCTGCAGGCCAGGCTGAGCCACTCC AGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAG TGGTTGTTCCCTTGCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAA ACATGGCCTGCTATTGCAGAATACCAGCGTGCATTGCAGGAGAACGTCGCTATGGAACCT GCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTGAGCTTGACAGAAAAAGAAAAATGA GCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTCAA TTTCCTTTCTCATCCCAATAAATGCCTTGTACAAGATAAAAAANNNNAAAAA AAAAAACTCGACTCTAGATTGCGGCCGCGTCAAGCTGTTTCTGAACAGATCCCGN TGGCATCCCTGTGACCCCTNCCCAGTGCCTCCTGGCCCTGGAAGTGCCACTCCAGTGC CCACCAGCCTTGNCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGCCTTCT ATATATTATAGANNANGGGGGTTTTTTTTNNNNNNGNNNNNTTTTTGNNTTAAATCC CTGGGGCCCCCGGGGCTTTGGGGACCAGCGGGGGGCGGGGCGCTTTCTTGGTCA ATGGAATCCCGCTCCGGGTCAAGGCATCTCCTGCCTCACCTCCGATTGGGGGGATT CAGCGTGGCTGACCAGCTACCTAATTTTGTTTTTGGGAAGAAAGGGGTTTACAATTGG GCAGGGGGGCCCATCTCATATCAGGGATCACCCCGGTCCCCAATGCGGGGATACAG CCGAACACA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005217 unedited</p> <pre> CACCCACCGAGAANAACACCCCCCTCTNNNTNNNNNTTTTACTTTGNNACGCGG NCCGCATACTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTGAAACAGGC ATTTATTTGGGATGAGGAAAGGAAATTGAGCAGAAGGTACAGGAGTAATAGCAATTCCTT GTAGCTCTCAAAGCAAATTTTGGCTCATTTTTCTTTTTCTGCAAGCTCAGCAGCAAAAT GCCCAAAGTCTTCCCTGGTAAATGCAGGTTCCATAGCGACGTTCTCCTGCAATGCACGCT GGTATTCTGCAATAGCAGGCCATGTTTTCTTGGCCTGGATGCTTTGGAGCCAAGCTT TCGTCCCATGCAAGGGAAACAACCACTTCTGGGATGTCCGCTGCAATCTGCTCCGGGGCT GCAGCAACCTCATCAGCTCTTGCCTGGAGTGGCTCAGCCTGGGCTGCAGGGCCACCAGG AGAATGGCAGCAAGGATGGCGAGGGTCTCATGGCTGGGGTACAGATCCTCTAGCTAGG CAGGGTGACCAGAGAGGGCAGACAGCAGTCTCTGTCCCTGGTGCCGAATTCGCGGCCGC CCTATAGTGAGTCGTATTACAAAATTCTGACGGTCACTAAACGAGCTCTGCTTATATAG ACCTCCCACCGTACACGCTACCGCCATTTGCGTCAACGGGGCGGGTTATTACAACAT TTTGGGAAGTCCCGTGATTTTGGTGCCAAAACAACCTCCATTGACGTCAATGGGGTGA AACTTGAAAAATCCCGGTGAGTAAACCGTTTTCCACGCCATTGTGGTACTGCCAAAACCG CATCACCATGGAATACCGATGACTAAATCCTAAATGTTACGGCCACATAGGAAAAATCCC TAAGGGTATTGCTCTGGCAATAAAGCCCGGGGCCCTTTACGGTATTTGACGTACATA AGGGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005217
Insert Size:	560 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).
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_005217.2](#), [NP_005208.1](#)

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]