

Product datasheet for **SC104065**

alpha Defensin 1 (DEFA1) (BC027917) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Defensin 1 (DEFA1) (BC027917) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha Defensin 1
Synonyms:	DEF3; defensin, alpha 3; defensin, alpha 3, neutrophil-specific; defensin 3, neutrophil-specific; HNP-3; HNP3; HP-3; neutrophil peptide 3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC027917, the custom clone sequence may differ by one or more nucleotides

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ATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCAGGCTGAGCCACTCCAGG
CAAGAGCTGATGAGGTTGCTGCAGCCCCGAGCAGATTGCAGCGGACATCCCAGAAGTGGTTGTTCCCT
TGCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATA
CCAGCGTGCATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGCATTCTGCT
GCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for BC027917 unedited</p> <pre>GATTTTGTAAACGACTCACTATAGGGCGGCCGCGAAATTCGCACGAGCTGGGACAGAGGA CTGCTGTCTGCCCTCTCTGGTCACCCTGCCTAGCTAGAGGATCTGTGACCCAGCCATGA GGACCCTCGCCATCCTTGTCTGCCATTCTCTGGTGGCCCTGCAGGCCAGGCTGAGCCAC TCCAGGCAAGAGCTGATGAGGTTGCTGCAGCCCGGAGCAGATTGCAGCGGACATCCCAG AAGTGGTTGTTTCCCTTGCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGA AAAACATGGACTGCTATTGCAGAATACCAGCGTGCATTGCAGGAGAACGTCGCTATGGAA CCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTGAGCTTGCAGAAAAAGAAAAA TGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCT CAATTTCTTTCTCATCTCAAATAAATGCCTTGTACAGAAAAAAGAAAAAAGAAAAA ACTCGACTCTAGATTGCGGCCGCGGTTCATAGCTGTTTCTGAACAGATCCCGGGTGGCAT CCCTGTGACCCCTCCCAAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACC AGCCTTGTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATATA TTATGGGGTGGAGGGGGTGGTATGGAGCAGGGNGCAAGTTGGGAAGACAACCTGTANNNG GCCTGCGGGTCTATTGGGAACAAGCTGNAGTGCAGTGGCACAATCTGGCTCACTGNCAT CTCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCACCTNCCGAGTTGTTGGGATTCCAG CATGCATGACCAGNCTCAGCTAANTTTTGTTTTTTGGGAGAGACGGGGTNTCACATATGG GCCAGCTGGNCTCCACTCCTAATCTCAGTGATCTAC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for BC027917 unedited</p> <pre>NNNGGGTTTCACTATGGAACCGCGCCGCAANCTANGATCGAGTTTTTTTTTTTTTTTTTTT TTTCTTGTAAACAAGCATTATTTGAGATGAGGAAAGGAAATTGAGCAGAAGGTACAGGA GTAATAGCAATCCCTGTAGCTCTCAAAGCAAATTTTGGAGCTCATTTTTCTTTTCTGCA AGCTCAGCAGCAGAAATGCCAGAGTCTTCCCTGGTAGATGCAGGTTCCATAGCGACGTTT TCCTGCAATGCACGCTGGTATTCTGCAATAGCAGTCCATGTTTTTCTTGGAGCCTGGATG CTTTGGAGCCAAGCTTTTCGTCATGCAAGGGAACAACCACTTCTGGGATGTCGGCTGC AATCTGTCTCCGGGCTGCAGCAACCTCATCAGCTTTGCTGGAGTGGCTCAGCCTGGGC CTGCAGGGCCACCAGGAGAATGGCAGCAAGGATGGCGAGGGTCCCTCATGGCTGGGGTCC AGATCCTCTAGCTAGGCAGGGTGACCAGAGAGGGCAGACAGCAGTCTCTGTCCCAGCTC GTGCCAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATCTGACGGTTCACATAA ACGAGCTCTGTTATATAGACCTCCCACCGTACACGCCTACCGCCATTTGCGTCAACGG GGCGGGTTATTACGACATTTTGGAAAGTCCCCTGATTTTGGTGCCAAAACAACTCCC ATTGACGTCAATGGGGTGGGAGACTTGGAAATCCCCGTGAGTCAAACCGCTATCCACGCC CATTGGTGTACTGCCAAAACCGCATCACCATGGTAATAGCGATGACTAATACGTAGATGT ACTGGCCAGTAGGAAAGTCCCGTAGGGTCACTGACTGGGCATAATGCCACGCGGGCCATT TACCGTCAN</pre>
Restriction Sites:	NotI-NotI
ACCN:	BC027917
Insert Size:	600 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: [BC027917.1](#), [AAH27917.1](#)

RefSeq Size: 556 bp

RefSeq ORF: 285 bp

Locus ID: 1668

Cytogenetics: 8p23.1

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]