

Product datasheet for **SC117446**

Cathelicidin (CAMP) (NM_004345) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cathelicidin (CAMP) (NM_004345) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cathelicidin
Synonyms:	CAP-18; CAP18; CRAMP; FALL-39; FALL39; HSD26; LL37
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117446 sequence for NM_004345 edited (data generated by NextGen Sequencing)

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ATGGGGACCATGAAGACCCAAAGGGATGGCCACTCCCTGGGGCGGTGGTCACTGGTGCTC
CTGCTGCTGGGCCTGGTATGCCTCTGGCCATCATTGCCAGGTCTCAGCTACAAGGAA
GCTGTGCTTCGTGCTATAGATGGCATCAACCAGCGGTCTCGGATGCTAACCTCTACCGC
CTCCTGGACCTGGACCCAGGCCACGATGGATGGGGACCCAGACACGCCAAAGCCTGTG
AGCTTCACAGTGAAGGAGACAGTGTGCCCCAGGACGACACAGCAGTCACCAGAGGATTGT
GACTTCAAGAAGGACGGGCTGGTGAAGCGGTGTATGGGGACAGTGACCCTCAACCAGGCC
AGGGGCTCCTTTGACATCAGTTGTGATAAGGATAACAAGAGATTTGCCCTGCTGGTGAT
TTCTTCCGGAAATCTAAAGAGAAGATTGGCAAAGAGTTTTAAAAGAATTGTCCAGAGAATC
AAGGATTTTTTGC GGAATCTTGTACCCAGGACAGAGTCCTAG
```

Clone variation with respect to NM_004345.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004345 unedited
 TGAGTTTATAGTTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACCAGGCTAGAGG
 GAGGCAGACATGGGGACCATGAAGACCCAAAGGATGGCCACTCCCTGGGGCGGTGGTAC
 TGGTGTCTCTGTCTGGGCCTGGTGTGCCTCTGGCCATCATTGCCAGGTCCTCAGCT
 ACAAGGAAGCTGTGCTTCGTGCTATAGATGGCATCAACCAGCGGTCTCGGATGCTAACC
 TCTACCGCCTCTGGACCTGGACCCAGGCCACGATGGATGGGGACCCAGACACGCCAA
 AGCCTGTGAGCTTCACAGTGAAGGAGACAGTGTGCCCCAGGACGACACAGCAGTACCAG
 AGGATGTGACTTCAAGAAGGACGGGCTGGTGAAGCGGTGTATGGGGACAGTGACCCTCA
 ACCAGGCCAGGGGCTCCTTTGACATCAGTTGTGATAAAGGATAACAAGAGATTTGCCCTGC
 TGGGTGATTTCTCCGAAATCTAAAGAGAAGATTGGCAAAGAGTTTAAAAGAATTGTCC
 AGAGAATCAAGGATTTTTGCGGAATCTGTACCCAGGACAGAGTCTAGTGTGTGCCCT
 ACCCTGGCTCAGGCTTCTGGGCTCTGAGAAATAAACTATGAGAGCAATTTCAAAAAAAA
 AAAAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCG
 GGTGGCATCCCTGTGACCCCTCCCAGTGCCTCTCTGGCCCTGNGAGTTGCCACTCCAG
 TGCCACCAGCCTTGCTTAATAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTT
 CTATATATATGGGGTGAAGGGGNNNTTTNTNNNNNAAACAGGNAACATTTTGAAAAAAA
 ACCCTGTAGGCCTTGCGGTCTATTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004345 unedited
 GGGGGAACACCCGCACCCTTCCNNNNNNGNNTTGCCTGNACCTGGACCGCATTTTANGA
 TCGGTTTTTTTTTTTTTTTTTTTGAATGCTCTCTAGTTTATTTCTCAGAGCCAGAAGCC
 TGAGCCAGGGTAGGGCACACACTAGGACTCTGTCTGGGTACAAGATTCCGCAAAAAATC
 CTTGATTTCTGGACAATTCTTTAAACTCTTTGCCAATCTTCTTTAGATTTCCGGAA
 GAAATCACCCAGCAGGGCAAATCTTGTATCCTTATACAACCTGATGTCAAAGGAGCC
 CCTGGCCTGGTTGAGGGTCACTGTCCCATACACCGCTTACCAGCCCGTCTTCTTGA
 GTCACAATCCTCTGGTACTGCTGTGCTGCTGGGGCACACTGTCTCCTTCACTGTGAA
 GCTCACAGGCTTTGGCGTGTCTGGGTCCCATCCATCGTGGGCCTGGGGTCCAGGTCCAG
 GAGGCGGTAGAGGTTAGCATCCGAGGACCGTGGTTGATGCCATCTATAGCACGAAGCAC
 AGCTTCTTGTAGCTGAGGACCTGNNGCATGATGGCCAGAGGCATACCAGGCCAGCAGC
 CAGGAGCACCAAGTACCACCCGCCCCAGGGAGTGGCCATCCCTTTGGGTCTTATGGTCC
 CCATGTCTGCCCTCCCTTAGCTGCTGGTGGCCGAATCGCGGCCCTATAGTGAGTCGTA
 TTACAAAAATCTGACGGNTCACTAAACGAGCTCTGCTTATATAGACCTTCCACCGTACAC
 GCCTACCCGCCATTTGCGTACAGGGGGCGGTTATTACCACATTTTGAAGTCCCGTGGA
 TTTTGTGCCCAAACCAACTCCCATTGACGTCAATGGGGTGGAAACTTTGAAAACCCCGGG
 AGGTAAACCGCTATCCACGCCCATTTGGGACTGCCCAAACCGCTCACCATGGAAAAGCG
 ATGACTAAACCTAAAGTACTGCCAAGAGGAAAGCCCCGTAGGT

Restriction Sites:

NotI-NotI

ACCN:

NM_004345

Insert Size:

610 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_004345.3](#), [NP_004336.2](#)

RefSeq Size: 739 bp

RefSeq ORF: 513 bp

Locus ID: 820

UniProt ID: [P49913](#)

Cytogenetics: 3p21.31

Domains: Cathelicidins

Protein Families: Secreted Protein, Transmembrane

Gene Summary: This gene encodes a member of an antimicrobial peptide family, characterized by a highly conserved N-terminal signal peptide containing a cathelin domain and a structurally variable cationic antimicrobial peptide, which is produced by extracellular proteolysis from the C-terminus. In addition to its antibacterial, antifungal, and antiviral activities, the encoded protein functions in cell chemotaxis, immune mediator induction, and inflammatory response regulation. [provided by RefSeq, Sep 2014]