

Product datasheet for **RG208872**

Cathelicidin (CAMP) (NM_004345) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cathelicidin (CAMP) (NM_004345) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Cathelicidin
Synonyms: CAP-18; CAP18; CRAMP; FALL-39; FALL39; HSD26; LL37
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208872 representing NM_004345
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGACCCAAAGGGATGGCCACTCCCTGGGGCGGTGGTCACTGGTGCTCCTGCTGCTGGGCCTGGTGA
 TGCCTCTGGCCATCATTGCCAGGTCCTCAGCTACAAGGAAGCTGTGCTTCGTGCTATAGATGGCATCAA
 CCAGCGGTCTCGGATGCTAACCTCTACCGCTCCTGGACCTGGACCCAGGCCACGATGGATGGGGAC
 CCAGACACGCCAAAGCCTGTGAGCTTACAGTGAAGGAGACAGTGTGCCACAGGACGACACAGCAGTCAC
 CAGAGGATTGTGACTTCAAGAAGGACGGGCTGGTGAAGCGGTGTATGGGGACAGTGACCCTCAACCAGGC
 CAGGGGCTCCTTTGACATCAGTTGTGATAAGGATAACAAGAGATTTGCCCTGCTGGGTGATTTCTCCGG
 AAATCTAAAGAGAAGATTGGCAAAGAGTTAAAAGAATTGTCCAGAGAATCAAGGATTTTTTGCGGAATC
 TTGTACCCAGGACAGAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208872 representing NM_004345
 Red=Cloning site Green=Tags(s)
 MKTQRDGHSLGRWSLVLLLLGLVMP LAIIAQVLSYKEAVLRAIDGINQRSSDANLYRLDLLDPRPTMDGD
 PDTPKPVSFYKTVKPTVCPRTTQQSPEDCDFKDKGLVKRCMGTVTLNQARGSFDISCDKDNKRFALLGDFFR
 KSKEKIGKEFKRIVQRIKDFLRNLVPRTES

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_004345

ORF Size: 510 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_004345.5](#)

RefSeq Size: 739 bp

RefSeq ORF: 513 bp

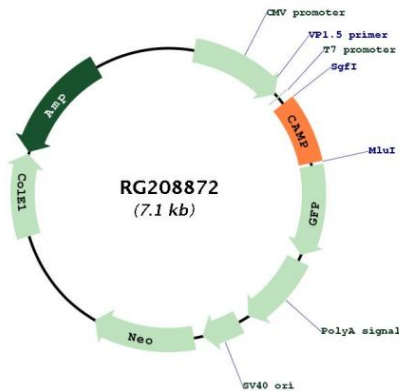
Locus ID: 820

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]

Product images:



Circular map for RG208872