

Product datasheet for **MC225789**

Calca (NM_001289444) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calca (NM_001289444) Mouse Untagged Clone
Tag: Tag Free
Symbol: Calca
Synonyms: C; CA; Calc; Calc1; Cg; Cgrp; CGRP-1; CGRP1; Ct; Ctn
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225789 representing NM_001289444
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCTTCTGAAGTTCTCCCTTTCTGGTTGTCAGCATCTTGCTCCTGTACCAGGCATGCAGCCTCC
AGGCAGTGCCTTTGAGGTCAATCTTGAAAGCAGCCCAGGCATGGCCACTCTCAGTGAAGAAGAAGTTCC
CCTGCTGGCTGCACTGGTGCAGGACTATATGCAGATGAAAGCCAGGGAGCTGGAGCAGGAGGAAGAGCAG
GAGGCTGAGGGCTCTAGTGTCACTGCTCAGAAGAGATCCTGCAACTGCCACCTGTGTGACCCATCGGC
TGGCAGGTCTGCTGAGCAGATCAGGAGGTGTGGTGAAGGACAACCTTTGTTCCCAACATGTGGGCTCTGA
AGCCTTCGGCCGCCCGCCAGGGACCTTCAGGC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001289444
Insert Size: 387 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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:	<ol style="list-style-type: none">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:	<u>NM_001289444.1, NP_001276373.1</u>
RefSeq Size:	1046 bp
RefSeq ORF:	387 bp
Locus ID:	12310
UniProt ID:	<u>Q99JA0</u>
Cytogenetics:	7 59.99 cM
Gene Summary:	<p>This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide (CGRP) and katacalcin. Alternative splicing of the mRNA results in multiple variants that encode either calcitonin or CGRP preproteins. Post-translational processing of the calcitonin and CGRP propeptides results in either calcitonin and katacalcin, or CGRP, respectively. Calcitonin and katacalcin modulate calcium levels in the blood stream. CGRP can function as a vasodilator and play a role in the transmission of pain. The human homolog of CGRP was found to have antimicrobial activity. [provided by RefSeq, Mar 2015]</p> <p>Transcript Variant: This variant (3) has an alternate splice site in the 5' UTR, lacks the 3' terminal exon and has two alternate 3' exons, compared to variant 1. The resulting isoform (Cgrp) is shorter and has a distinct C-terminus, compared to isoform Calca. Both variants 2 and 3 encode the same isoform Cgrp.</p>