

Product datasheet for **MG200827**

Calca (NM_007587) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calca (NM_007587) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Calca
Synonyms: C; CA; Calc; Calc1; Cg; Cgrp; CGRP-1; CGRP1; Ct; Ctn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200827 representing NM_007587
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTTCTGAAGTTCTCCCTTTCTGGTTGTCAGCATCTTGCTCCTGTACCAGGCATGCAGCCTCC
AGGCAGTGCCTTTGAGGTCAATCTTGAAAGCAGCCAGGCATGGCCACTCTCAGTGAAGAAGAAGTTCCG
CCTGCTGGCTGCACTGGTGCAGGACTATATGCAGATGAAAGCCAGGGAGCTGGAGCAGGAGGAAGAGCAG
GAGGCTGAGGGCTCTAGCTTGGACAGCCCCAGATCTAAGCGGTGTGGGAATCTGAGTACCTGCATGCTGG
GCACGTACACACAAGACCTCAACAAGTTTCACACCTTCCCAAACTTCAATTGGGGTTGAAGCACCTGG
CAAGAAAAGGGATGTGGCAAGGACTTGGAGACAAACCAATCCCATTTGGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200827 representing NM_007587
Red=Cloning site Green=Tags(s)
MGFLKFSPLVVSILLLLYQACSLQAVPLRSILESSPGMATLSEEEVRLAALVQDYMQMKARELEQEEEQ
EAEGLSDSPRSKRCGNLSTCMLGTYTQDLNKFHTFPKTSIGVEAPGKKRDVAKDLETNHQSHFGN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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|-------------------------------|---|
| 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: | <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: | NM_007587.1 , NP_031613.1 |
| RefSeq Size: | 857 bp |
| RefSeq ORF: | 411 bp |
| Locus ID: | 12310 |
| UniProt ID: | P70160 |
| Cytogenetics: | 7 59.99 cM |
| Gene Summary: | 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] |