

# Product datasheet for MG200827

## Calca (NM\_007587) Mouse Tagged ORF Clone

## **Product data:**

#### OriGene Technologies, Inc.

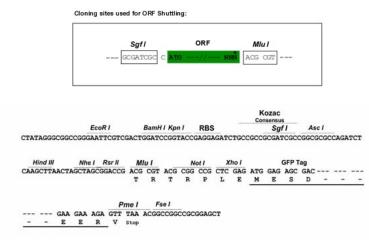
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Product Type:	Expression Plasmids
Product Name:	Calca (NM_007587) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Calca
Synonyms:	C; CA; Calc; Calc1; Cg; Cgrp; CGRP-1; CGRP1; Ct; Ctn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG200827 representing NM_007587 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGCTTCCTGAAGTTCTCCCCTTTCCTGGTTGTCAGCATCTTGCTCCTGTACCAGGCATGCAGCCTCC AGGCAGTGCCTTTGAGGTCAATCTTGGAAAAGCAGCCCAGGCATGGCCACTCTCAGTGAAGAAGAAGTTCG CCTGCTGGCTGCACTGGTGCAGGACTATATGCAGATGAAAGCCAGGGAGCTGGAGCAGGAAGAAGAGCAG GAGGCTGAGGGCTCTAGCTTGGACAGCCCCAGATCTAAGCGGTGTGGGAATCTGAGTACCTGCATGCTGG GCACGTACACAAGACCTCAACAAGTTTCACACCTTCCCCAAAACTTCAATTGGGGTTGAAGCACCTGG CAAGAAAAGGGATGTGGCCAAGGACTTGGAGACAAACCACCAATCCCATTTTGGCAAC
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>MG200827 representing NM_007587 <mark>Red=</mark> Cloning site Green=Tags(s)
	MGFLKFSPFLVVSILLLYQACSLQAVPLRSILESSPGMATLSEEEVRLLAALVQDYMQMKARELEQEEEQ EAEGSSLDSPRSKRCGNLSTCMLGTYTQDLNKFHTFPKTSIGVEAPGKKRDVAKDLETNHQSHFGN
	TRTRPLE - GFP Tag - V
<b>Restriction Sites:</b>	Sgfl-Mlul

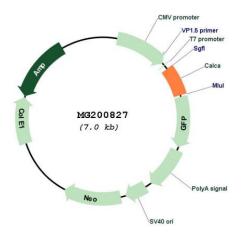


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#### **Cloning Scheme:**



#### Plasmid Map:



ACCN:	
ORF Size:	
OTI Disclaimer:	

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### NM\_007587

#### 408 bp

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. <u>More info</u>

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Calca (NM_007587) Mouse Tagged ORF Clone – MG200827	
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 007587.1, NP 031613.1</u>
RefSeq Size:	857 bp
RefSeq ORF:	411 bp
Locus ID:	12310
UniProt ID:	<u>P70160</u>
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 preproproteins. 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]