

Product datasheet for **MG208248**

Clca1 (BC010260) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clca1 (BC010260) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clca1
Synonyms:	Cacc; Clca1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208248 representing BC010260
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGCCAGGGCTGCAGGTCCTTCTGTTCTCACCTGCATCTCCTGCAGAACACAGAGAGCTCCATGG
 TGCATCTCAACAGCAATGGATACAGGGTGTGGTCATTGCCATTAAACCCAGTGTCCGGAGGACGAAAG
 GCTCATCCAAGCATAAAGGAAATGGTAACTCAAGCCTTACCTACCTGTTTGAAGCCAGCCAAGGAAGA
 GTTTATTTTCAGAAACATAAGCATATTAGTCCCAGTACCTGGAAGTCAAAACCTGAGTACTTAATGCCAA
 AACGAGAATCGTATGACAAAGCAGAGCTCATAGTTGCGGATCCTCACCTGCAACATGGAGACGACCCCTA
 CACCCCTCAGTATGGACAGTGTGGGGACAGAGGACAGTACATACACTTCACTCCAAACTTCTACTCACT
 GATAACTTGCATCTACGGACCCCGAGGCAGAGTCTTTGTCCATGAGTGGGCCATCTCCGGTGGGGAG
 TATTTGATGAGTAAACGTGGACCAGCCTTTCTACATGTCTAGAAAGAACACTATAGAAGCAACAAGGTG
 TTCACCAGGATCACTGGCACC AATGTGGTTCACAACCTGTGAGAGAGGCAACTGTGTACAAGGGCGTGC
 CGGCGTACTCGAAGACACGGCTGTATGAACCCAAATGTACATTTATCCCAGACAAAATACAGACGGCTG
 GGGCTCCATAATGTTTATGCAAAAACCTTAATTCTGTGGTTGAATTTTGACAGAAAAAACCAATGC
 AGAAGCCCCAAACCTACAAAACAAAATGTGCAATCGCAGAAGCACGTGGGATGTAATCAAGACGTCTGCT
 GACTTTTCAGAAATGCCCTCCCATGAGAGGAACAGAAGCCCTCCTCCACCTACATTTTCACTGCTCAAGT
 CCAGAAGCGAGTGGTGTGCTTGGTGTGGATAAATCTGGAAGCATGGACAAAGAAGACCGTCTTATTTCG
 AATGAATCAAGCAGCAGAACTGACTTAACTCAAATTGTGAAAAGGAGTCTATGGTTGGATTAGTCACA
 TTTGACAGCGCTGCCACATCCAAAATTATCTAATAAAAAAACGAGTAGTAGTACTACAAAAGATCA
 CCGCAAACTCCCCAACAGGCTTCTGGTGAACCTTCAATTTGCCATGGACTCCAGGAGGATTTACGGC
 AATTACCTCCAGTGACCAGAGCACTTCCGGTCTGAGATCGTATTGCTGACAGATGGGGAAGATAATGGA
 ATACGTTCTGCTTTGAGGCCGTCTCTCGACGGTGCATCATCCACCCATCGCTCTGGGCTTCGG
 CTGCCGAGAACTGGAGACTCTGTGGACATGACAGTTGGAGAGCAAAGCCTTCGATGTCAGAGCAGGGG
 CATGGATAAACGGTACAGTACCTCTGGACAGTACCGTCCGCAACGACAGTCTTTTGTATCACCTGGAT
 GGTAAAAAGCCAGAAATCATTCTCAAGATCCAAAAGGAAAAAATATACAACCTCAGATTTCCAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208248 representing BC010260
 Red=Cloning site Green=Tags(s)

MVPLQLVLLFLTLHLLQNTSSMVLNSNGYEGVVIAINPSVPEDERLIPSIKEMVTQASTYLFEASQGR
 VYFRNISILVPMTWKSPEYLMPKRESYDKADVIVADPHLQHGDOPYTLQYGCGDRGQYIHFTPNFLLT
 DNLRIYGRGRVFEVHWAHLRWGVFDEYNVDQPFYMSRKNTIEATRCSTRITGTNVVHNCERGNVTRAC
 RRDSKTRLYEPKCTFIPDKIQTAGASIMFMQNLNSVVEFCTEKNHNAEAPNLQNKMCNRRSTWVDTKSA
 DFQNAAPPMRGTEAPPPPTFSLKSRRRVCLVLDKSGSMDKEDRLIRMNQAELYLQIVEKESMVLVT
 FDSAAHIQNYLIKITSSSDYQKITANLPQQASGGTICHGLQAGFQAITSSDQSTSGSEIVLLTDGEDNG
 IRSCFEAVSRSGAIIHTIALGPSAARELETLSDMTVGEQSLRCQSRGMDKRYSTSGQYRRQRHVLCYHLD
 GKKARNHSSRSKRKKIYNLRFPR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI
BamHI *KpnI*
RBS
Kozac Consensus
SgfI
AscI

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII
NheI *RsrII*
MluI
NotI
XhoI
GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- --- ---

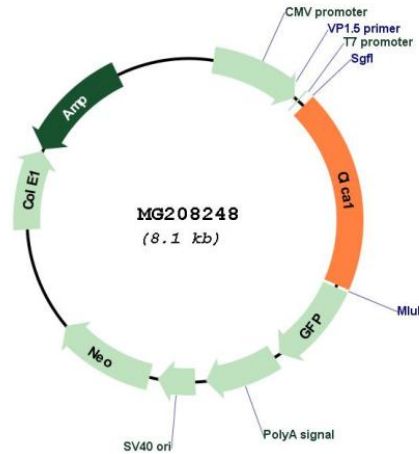
T R T R P L E
M E S D
- - -

PmeI
FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V
Stop

Plasmid Map:



ACCN: BC010260

ORF Size: 1541 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: [BC010260](#), [AAH10260](#)

RefSeq Size: 3201 bp

RefSeq ORF: 1541 bp

Locus ID: 12722

Cytogenetics: 3 69.06 cM

Gene Summary: Plays a role in modulating chloride current across the plasma membrane in a calcium-dependent manner.[UniProtKB/Swiss-Prot Function]