

Product datasheet for **MG211262**

Clca2 (NM_178697) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clca2 (NM_178697) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clca2
Synonyms:	4732440A06; AI586120; Clc; Clca5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211262 representing NM_178697
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCACAGGGACAGCACAGGACCTGTCATCGGGCTGAAACTTGTGACCCCTTCTGTTACCCTAAGTC
 CAGAACTTCTGTTCTGGGAGCTGGATTGAAGCTGAAAGAGAATGGCTATGATGGATTGCTTGTGCCAT
 CAATCCCCGGGTACCCGAGGATCTGAAGCTGATTACAAACATTAAGGAAATGATAACCGAAGCTTCTTTT
 TACCTGTTCAATGCGACCAAGAGGAGGGTGTTTTTCAGAAATGTACAGATTTTAGTACCTGCCACTTGGA
 CGGATCATAATTACAGTAGAGTAAGACAAGAATCCTATGACAAGGCAAATGTCATAGTGGCTGAGCAGAG
 TGAGGAACACGGAGATGATCCCTACACCCTACAGCACAGAGGGTGTGGGCAAGAGGGGAGATACATCCAC
 TTCACCCCGAGCTTCTACTCAACGATGAGTTAGCCGAGGCTATGGTGCAGGAGGCAGAGTGTGTGCC
 ACGAGTGGGCCCATCTCCGCTGGGGTGTGTTTCGATGAATAACAACGACAAACCGTTCTACGTGAATGG
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 ACACAACCAAGAAGCTCCAAACCTCCAGAACCAAGTGTGCAGCCTCAGAAGCACTTGGGACGTGATCACA
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 TCCTCAAACCTTCTCCTGTAGTGAGCAGAGATGATCTGATCCTGAAAGGAGTTTTAACAAACAGTAGGT
 TTGATAGCAATCCTTTGCCTTATTATGGTTGTAGCACACTGTATTTTTAACAGGAAAAAGAGACCATCAA
 GAAAAGAGAATGAGACAAAATTTCTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211262 representing NM_178697
 Red=Cloning site Green=Tags(s)

MTHRDSTGPIGLKLVTLFTLSPELLFLGAGLKLKENGVDGLLVAINPRVPEDLKLITNIKEMITEASF
 YLNFNATKRRVFFRNVQILVPATWTDHNSRVRQESYDKANVIVAEQSEEHGDDPYTLQHRGCGQEGRYIH
 FTSPFLLNDELAAGYGARGRVFVHEWAHLRWGVFDEYNNDKPFYVNGRNEIQVTRCSSDITGVFVCEKGL
 CPHEDCIISKIFREGCTFLYNSTQNTGSI MFMPSLPSVVEFCNESTHNQEAPNLQNVCSLRSTWDVIT
 ASSDLNHSLPVHGVGLPAPPTFSLLLQAGDRVVCLVIDVSRKMAEGDRLLRLQQAELYLMQVVEAHTFVG
 IVTFDSKGEIRASLQQIYSDDDRKLLVSYLPTAVSTDAETNICAGVKKGFVVEERNRGRDGSVLILVTS
 GADEHIANCLLTSMSGSTIHSMALGSSAARKVGELSRLTGGLKFFIPDKFTSNGMTEAFVRISSGTGDI
 FQQLQVESVCETVQPQHLADTMTVDSAVGNDFLVTWQTGGPPEIALLDPSGRKYNTGDFIINLAFR
 TASLKIPGTAKHGHWTYTLNTHHSPQALKVTVASRASSLAMSPATLEAFVERDSTYFPQPVIIYANVRK
 GLHPILNATVVATVEPEAGDPVVLQLLDGGAGADVIRNDGIYSRYFSSFVSGSYSLTVHVRHSPSTSTL
 ALPVPGNHAMYVPGYITNDNIQMNAPKNLGHPRVKERWGF SRVSSGGSF SVL GVPDGPDPMFPPCKITD
 LEAMKVEDDVLSWTAPGEDFDQQTTSYEIRMSRSLWNIRDDFDNAILVNSSELVPQHAGTRETFTFSP
 KLVTHELDHELAEDAQEPYIVYVALRAMDRSSLRSVSNIALVMSLPPNSSPVVSRDDLILKGLTTVG
 LIAILCLIMVVAHCI FNRKKRPSRKENETKFL

TRTRPLE - GFP Tag - V

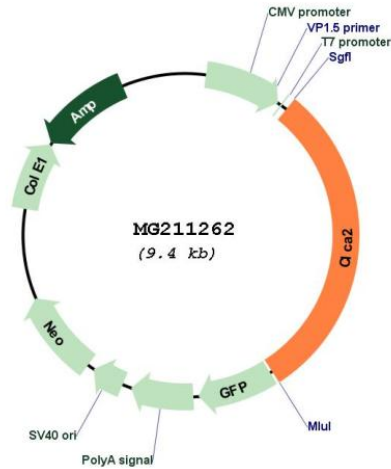
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178697

ORF Size: 2826 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_178697.5](#)

RefSeq Size: 3921 bp

RefSeq ORF: 2829 bp

Locus ID: 229933

UniProt ID: [Q8BG22](#)

Cytogenetics: 3 H2

Gene Summary:

This gene encodes a member of the calcium-activated chloride channel regulator (CLCR) family of proteins. Members of this family regulate the transport of chloride across the plasma membrane. Expression of this gene is upregulated by the tumor suppressor protein p53 in response to DNA damage. Mice lacking a functional copy of this gene exhibit increased liver weight and hepatocyte hypertrophy. [provided by RefSeq, Sep 2016]