

Product datasheet for **MR211262**

Clca2 (NM_178697) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clca2 (NM_178697) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clca2
Synonyms:	4732440A06; AI586120; Clc; Clca5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211262 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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 TGCCCCCATGAAGACTGCATTATTAGCAAGATTTTAGGGAAGGATGCACATTCTCTACAACAGCACCC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211262 representing NM_178697
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MTHRDSTGPVIGLKLVTLLFTLSPELLFLGAGLKLKENGVDGLLVAINPRVPEDLKLITNIKEMITEASF
 YLFNATKRRVFFRNVQILVPATWTDHNSRVQRQESYDKANVIVAEQSEEHGDDPYTLQHRGCGQEGRYIH
 FTPSFLLNDELAAGYGARGRVFVHEWAHLRWGVFDEYNNDKPFVYNGRNEIQVTRCSSDITGVFVCEKGL
 CPHEDCIISKIFREGCTFLYNSTQNTATGSIMFMPSLPSVVEFCNESTHNQEAPNLQNVCSLRSTWDVIT
 ASSDLNHSLPVHGVGLPAPPTFSLLLQAGDRVCLVIDVSRKMAEGDRLLRLQQAELYLMQVVEAHTFVG
 IVTFDSKGEIRASLQQIYSDDRKLLVSYLPTAVSTDAETNICAGVKKGFVVEERNRGRADGSVLILVTS
 GADEHIANCLLTSMSGSTIHSMALGSSAARKVGELSRLTGGLKFFIPDKFTSNGMTEAFVRISSGTGDI
 FQQLSQVESVCETVQPQHLADTMTVDSAVGNDFLVTWQTGGPPEIALLDPSGRKYNTGDFIINLAFR
 TASLKIPGTAKHGHWTYTLNNTHHSPQALKVTVASRASSLAMSPATLEAFVERDSTYFPQPVIIYANVRK
 GLHPILNATVVATVEPEAGDPVVLQLLDGGAGADVIRNDGIYSRYFSSFVAVSGSYSLTVHVRHSPSTSL
 ALPVPGNHAMYVPGYITNDNIQMNAPKNLGHPRVKERWGF SRVSSGGSF SVL GVPDGPDPMPFPCKITD
 LEAMKVEDDVVLSWTAPGEDFDQQTTSYEIRMSRSLWNIRDDFDNAILVNSSELVPQHAGTRETFTFSP
 KLVTHELDHELAEDAQEPYIVYVALRAMDRSSLRSVSNIALVMSLPPNSSPVVSRDDLILKGVLTTVG
 LIAILCLIMVVAHCI FNRKKRPSRKENETKFL

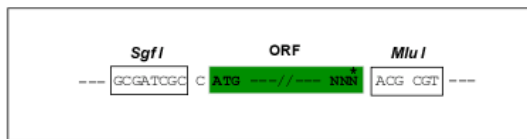
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



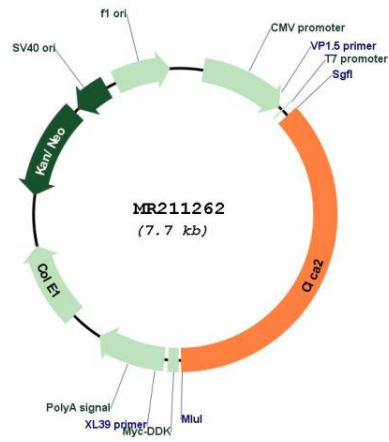
* The last codon before the Stop codon of the ORF

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:	<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_178697.5
RefSeq Size:	3921 bp
RefSeq ORF:	2829 bp
Locus ID:	229933
UniProt ID:	Q8BG22
Cytogenetics:	3 H2
MW:	104.1 kDa
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]

Product images:



Circular map for MR211262