

## Product datasheet for **MC222584**

### **Clca1 (NM\_017474) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Clca1 (NM_017474) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clca1
Synonyms:	Clca2; Clca3; gob-5; gob5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:**

>MC222584 representing NM\_017474

Red=Cloning site Blue=ORF Orange=Stop codon

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
GCC

ATGGAATCTTTGAAGAGTCTGTCTTCTTCTTCTGATCCTCCACCTTCTGGAAGGAGTTCTGAGTGAGTCCC  
TCATCCAACCTGAACAACAACGGCTATGAGGGCATCGTCATCGCCATAGACCACGAGTGGCCGAAGATGA  
AGCCCTCATTCAACACATAAAGGACATGGTGACTCAGGCCTCTCCATACCTGTTTGAAGCTACAGGAAAA  
AGATTTTACTTCAAAAATGTTGCCATTTTGATTCCCGAGAGCTGGAAGGCAAAGCCTGAATATACGAGGC  
CAAACTTGAAACCTTCAAAAACGCTGATGTCCTTGATCAACAACCAGCCCTCTAGGCAATGATGAGCC  
CTACACCGAACATATAGGAGCATGTGGAGAAAAGGGGATCAGGATTCACCTGACTCCTGACTTCTTAGCA  
GGAAAGAAGCTGACTCAGTATGGGCCACAAGACAGGACCTTTGCCATGAGTGGGCTCAGTCCGATGGG  
GAGTGTTAATGAATACAACAACGACGAGAAGTTCTACTTATCCAAGGAAAACCCCAAGCAGTGAGGTG  
TTCAGCAGCCATTACCGTAAAAATCAAGTTTCGTCGGTCCAGGGAGGCAGTTGTATCACTAACGGAAAG  
TGTGTAATCGACAGAGTAACGGGACTGTATAAAGACAATTGTGTATTTGTACCAGATCCACACAAAACG  
AGAAGGCTTCCATCATGTTTAAACAAAATATCAATTCTGTGGTTGAATTCTGTACAGAAAAAATACAA  
TCAAGAAGCCCCAAATGACCAAAACCAACGATGCAATCTCCGAAGCACGTGGGAAGTCAATCCAGGAATCT  
GAGGACTTCAAGCAAACCACTCCCATGACAGCCAGCCACCTGCACCCACCTTCTCACTGCTGCAAAATG  
GACAAAGAATTGTGTGCTTAGTCTTGATAAGTCCGGGAGCATGCTGAACGATGATCGTCTTAAACGAAT  
GAATCAGGCAAGCCGGCTTTTCTGTGACAGCTGTGGAGCAGGGATCCTGGGTCGGGATGGTGACCTTT  
GACAGTCTGCCTATGTACAAGCGAACTCAAACAGTTAAACAGTGGTGTGACAGAGATCTGCTGATCA  
AGCACTTACCCACAGTATCTGAGGAGGACATCTATATGCTCTGGCCTTCGGACAGCATTTACAGTGAT  
AAAGAAGAAGTATCCAACCTGATGGATCTGAAATTTGTGCTGCTGACCGATGGGGAGGACAACACCATTAGC  
AGCTGCTTTGACCTGGTGAAGCAGAGCGGGCCATCATCCATACAGTGGCCCTGGGACCGCTGCCGCTA  
AAGAGCTTGAGCAGCTGTCCAAATGACAGGAGCCTGCAGACATACTCTCGGATCAGGTTCAGAACAA  
TGGTCTTGTTGATGCTTTCGACACTCTCCTCAGGAAATGCGGCGATCGCTCAGCACTCCATCCAGCTG  
GAGAGCAGGGGAGTTAATCTCCAGAATAACCAATGGATGAATGGCTCAGTATCGTGACAGCTCGGTGG  
GCAAGGACACCTGTTTTCTATCACCTGGACAACGCATCCTCTACAATATTTATCTGGGATCCCAGCGG  
AGTGGAACAAAATGGTTTTATACTAGACACAACCACTAAGGTGGCTACCTCAAGTCCCAGGCACGGCT  
AAGGTTGGCTTTTGGAAATACAGCATTCAAGCGAGCTCACAGACTCTCACCTTGACTGTCACCTCCCGTG  
CAGCAAGTGCTACACTGCCTCCTATTACAGTGACCCCGGTAGTGAATAAGAACACAGGGAATTCCCAG  
CCCTGTAACAGTGTATGCAAGCATTGCAAGGAGCCTCGCTATTCTCAGGGCCAGCGTACAGCCTTG  
ATTGAATCTGTGAATGGAAAAACAGTAACCCTGGAATTAAGGATAACGGAGCAGGTGCCGATGCCACCA  
AGAATGATGGTGTCTACTCAAGTTTTTTACAGCTTTTGTGCAATGGTAGATACAGCGTTAAAAATATG  
GGCTCTGGGAGGAGTCACTTCCAGACAGACAGAGCAGCACCTCCGAAGAACAGAGCCATGTACATAGAT  
GGCTGGATTGAGGATGGTGAAGTAAGAATGAACCCACCACGTCTGAAACTAGTTATGTTCAAGACAAGC  
AGCTGTGCTTTCAGCAGGACATCTTCAGGGGATCGTTTGTGGCCACCAATGTCCCGCAGCAGCTCCAT  
TCCTGACCTCTTCCACCCTGTCAAATCACTGACCTGAAGGCCAGCATCCAAGGGCAGAACCTGGTGAAT  
CTGACGTGGACGGCTCCTGGGGATGACTACGACCACGGGAGAGCTTCCAACATACATCCGAATGAGCA  
CCAGTATCGTTGATCTCAGGACCACTTCAACACCTCACTCCAAGTGAACACTACCGGTCTTATCCCCAA  
AGAGGCCAGCTCTGAGGAAATCTTTGAGTTTGAAGTGGGAGGCAACACTTTTGGAAATGGCACAGATATC  
TTCATTGCTATCCAGGCTGTGGATAAGTCCAATCTGAAATCAGAAATCTCCAACATTGCACGGGTGTCTG  
TGTTTATCCCGCTCAGGAGCCGCCATTCGGAAGACTCAACTCCCCTTGTCTGACATCAGCATCAA  
CAGCACCATTCTGGCATCCACGTGCTGAAGATAATGTGGAAGTGGCTAGGGGAAATGCAGGTGACACTA  
GGTTTGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Ascl-MluI

<b>ACCN:</b>	NM_017474
<b>Insert Size:</b>	2742 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017474.2</a> , <a href="#">NP_059502.1</a>
<b>RefSeq Size:</b>	2935 bp
<b>RefSeq ORF:</b>	2742 bp
<b>Locus ID:</b>	23844
<b>UniProt ID:</b>	<a href="#">Q9D7Z6</a>
<b>Cytogenetics:</b>	3 69.26 cM
<b>Gene Summary:</b>	May be involved in mediating calcium-activated chloride conductance. May play critical roles in goblet cell metaplasia, mucus hypersecretion, cystic fibrosis and AHR. May be involved in the regulation of mucus production and/or secretion by goblet cells. Involved in the regulation of tissue inflammation in the innate immune response. May play a role as a tumor suppressor. Induces MUC5AC.[UniProtKB/Swiss-Prot Function]