

## Product datasheet for **MR210151**

### **Lca5 (NM\_027448) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Lca5 (NM_027448) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lca5
Synonyms:	4930431B11Rik; 5730406O13Rik; AV274874; ORF64
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210151 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGGGAAAGAGCCCGAAGTCCAGATATTGAACAAGGAAAAAAGGAGGCAAACACCCATACTCTCATT  
 ATTCGTCTGACCTTGGGTCTCACACAGTCTCTGGCCCTCATCACCTGTCAACACGACGCCATGTGC  
 CAGTACTAGGGAGAAGAATCCCAAAAGACACTTGTGACACAACCAAGTGCATCACCAACCGTTAGGAAA  
 GTAAGTCTAAGGCTGTACCCAGCAAAAAGGGCATCCGAGTGGGATTTCCGGTCCCAAGCCTCAACAGAG  
 AGCCACTTCGAAAGATCCAGATATCGTAACAAAGCGGTTCTTTCTGCCAGACTTCTGAAAATCAACGA  
 GCTGCAGAACGAAGTGTGAGAACTACAGGTCAAGTTAGCCAGCTGTCAAAGAGAACAAGGCTTTGAAA  
 AGCCTTCAGTATCGTCAGGAGAAAGCGCTGAATAAGTTTGAAGATGCGGAGAACGAGATCTCACAACCTA  
 TACACCGCCATAACAATGAGATTACTGCGCTCAAAGAACGCTTACGAAAATCTCAGGAGAAGGAGCGGGC  
 GACAGAGAAAAGAGTGAAGAGACAGAAGTGAACATTTAGGACGAAATTTTCCTTACAGAAAAGTAAA  
 AAGATCTCCGAGGCCAGACACTACCGGAGCGAGACGATTTGGCCAAGAACTGGTTTCGGCAGAGTTAA  
 AATTAGATGACACGGAGAGAAAAGATTAAGGAGCTATCGAAGAACCTGGAGCTGAGCACGAACAGTTTCCA  
 GCGGCAGCTGCTCGTGAAGGAAAAGAGCATTGAGGCTTACGATGAAAATAAAGTTCTTCAAAAGGAG  
 CTGCAGCGGCTCCATCACAAGCTCAAGGAAAAGGAGAAAAGAAATTGGATATAAAAAACATCTATGCTAATC  
 GCCTGCCAAATCCTCTCAAAGAAAAGAGAAAAGAAATCGAAAGGAAAACATGTATCCTGCCAGAGTGACTT  
 TACAGACCAGTGTACAAAAGGAGTACAGACCGCTGAAGACTTTGAGCTGGAGGACTTTCTTTTACAGCC  
 CAGACAGTTCTCTGCTATGAAAACAGATGGGATGAACCAGAATATCTCTTTCGTACCTGGAGTACCAGG  
 ATCTCAACAAACATGGATCAGAGATGCTAAGTTTCAAGTGTGGGACAAGAAGGAAAAGTATGATGAAGATGA  
 GGACCCATGCTCTGCAAAGCAGGAGGCCAGGAAGCCTGAGAGTGAATGGGCAAGAGAAGAACTTGATAAG  
 GTGAAAGGCAAGTCAAGTCTGCTAGGGAGAGCAGAGAAGCTGGCATTGGAAGCTGGGAGATTTCCCAACGG  
 AAAATTATCAAGCTCAGTCTGTCGATAAATTCGAAGATGAGGCAGAAAAGACTAAAGACAGAAATGCTCCT  
 TGCCAAACTGAACGAAATCAACAAAGAACTCCAAGATCCTCAGAACCTCGGGCGGCCCTTTGCCATTG  
 CTGCCAACTTCGAATCCAAGTGCCTCTCCAGACAGAAGTACCAGACCTTACTCGTTCCTCCGAGTCTCT  
 TAGACCGATCGTTAATGGACAACACTTGACAGGACTTGAGTTTTTAACTCCCAGGGGAGAAGGCGGGAG  
 TCCAGGACCGATCCGAAGTCCAGGACAGATCCGAAGTCCAGCCCCTTAGATGAGTTTTTCAATTTGGTAGC  
 TATGTGCCTTCGTTTGGAAAACATTAGGGAAGTCAAATCCACCTAGCCAAAAAAGTAGCCTTTTAGATT  
 TCCAAAGCAACAGTTCTGAAAGCCCGAGTAAAGACAGTCTTGATTAATGTCGAGGAAAAGAGAAAAGGC  
 GACTCTGATGGAGCAGCTGTTTGGCCCCAGCGCCAGCAACACCAGTGTCTCCTCCAAGAGCACCGACCCA  
 CACTTCCCTGCTGCCAGCAGAGGTGACATGGACCTCTTCATTTCTCTGTTGGGACAGAAAACAGCAGAG  
 TCCGGGAGCCTGGCGATGAAGAGGAAGACCTTTTCTCAGGGAAGGAAGAAGTTTAAATCCAAATAGACA  
 CCGGTTGAAGCACGCAAGCAATAAGCCAACAGTACGGCCGTTGACTCTGTTGATGAGGACATTGAAGAG  
 GTTACCCTCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210151 protein sequence  
 Red=Cloning site Green=Tags(s)

MGERARSPDIEQGGKGGKHPYSHYSSDLGSSPQSSGSPSPVNTTPCASTREKNPKRHLSDNQVHHPTVRK  
 VSPKAVPSKKGIRVGFERSQSLNREPLRKDPDIVTKRVL SARLLKINELQNEVSELQVCLAQLLKENKALK  
 SLQYRQEALNKFEDAENEISQLIHRHNNEITALKERLRKSQEKERATEKRVKETE GELFRTKFSLQKLLK  
 KISEARHLPERDDLAKKLVSaelKLDDTERKIKEL SKNLELSTNSFQRQLLAERKRAFEAYDENKVLQKE  
 LQRLHHKLEKEKELDIKNIYANRLPKSSPKKEKEIERKHVSCQSDFTDQCTKGVQTAEDFELEDFFFTA  
 QTVLCYENRWDEPEYLSYLEYQDLNKHGSEM LSSVLGQEGKYDEDEDPCSAKQEARKPESEWAREELDK  
 YKGSALLGRAEKLALeAGRFPTENYQAQSVDFEAEERLKTEMLLAKLNEINKELQDPQNLGRAPLPL  
 LPNFESKHLSPDRSTRPYSFPESLDRSfNGHLQDL SFLTPRGEggSPGPIRSPGQIRSPAPLDEF SFGS  
 YVPSFGKTLGKSNPPSQKSSLLDFQSNSSeSPSKDSL DMSRKEKATLMEQLFGPSASNTSVSSKSTDP  
 HFPAASRGMDPLHFLSGDRNSRVREPGDEEDLFLREGRSFNPNRHRLKHASNKPTVTAVDSVDEDIEE  
 VTLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_027448

**ORF Size:** 2115 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\\_027448.1](#), [NM\\_027448.2](#), [NP\\_081724.1](#)

**RefSeq Size:** 4235 bp

**RefSeq ORF:** 2115 bp

**Locus ID:** 75782

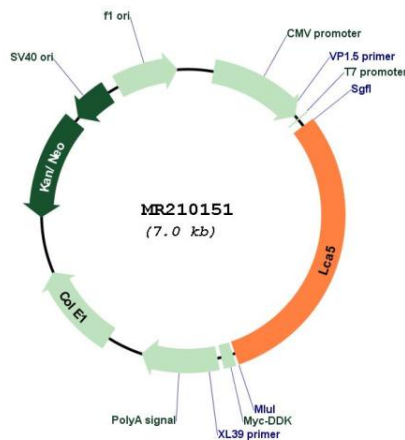
**UniProt ID:** [Q80ST9](#)

**Cytogenetics:** 9 E2

**MW:** 80.2 kDa

**Gene Summary:** Involved in intraflagellar protein (IFT) transport in photoreceptor cilia.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210151