

Product datasheet for **MR210147**

Lca5 (BC052060) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lca5 (BC052060) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lca5
Synonyms:	4930431B11Rik; 5730406O13Rik; AV274874; ORF64
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR210147 representing BC052060
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGGAAAGAGCCCGAAGTCCAGATATTGAACAAGGAAAAAAGGAGGCAAACACCCATACTCTCATT
 ATTCGTCTGACCTTGGGTCTCACACAGTCTCTGGCCCTCATCACCTGTCAACACGACGCCATGTGC
 CAGTACTAGGGAGAAGAATCCCAAAAGACACTTGTGACACAACCAAGTGCATCACCAACCGTTAGGAAA
 GTAAGTCTAAGGCTGTACCCAGCAAAAAGGGCATCCGAGTGGGATTTCCGGTCCCAAGCCTCAACAGAG
 AGCCACTTCGAAAGATCCAGATATCGTAACAAAGCGGGTTCTTTCTGCCAGACTTCTGAAAATCAACGA
 GCTGCAGAACGAAGTGTGAGAACTACAGGTCAAGTTAGCCAGCTGTCAAAGAGAACAAGGCTTTGAAA
 AGCCTTCAGTATCGTCAGGAGAAAGCGCTGAATAAGTTTGAAGATGCGGAGAACGAGATCTCACAACCTA
 TACACCGCCATAACAATGAGATTACTGCGCTCAAAGAACGCTTACGAAAACTCAGGAGAAGGAGCGGGC
 GACAGAGAAAAGAGTGAAGAGACAGAAGTGAACATTTAGGACGAAATTTTCCTTACAGAAAAGTAAA
 AAGATCTCCGAGGCCAGACACCTACCGGAGCGAGACGATTTGGCCAAGAACTGGTTCCGGCAGAGTTAA
 AATTAGATGACACGGAGAGAAAAGATTAAGGAGCTATCGAAGAACCTGGAGCTGAGCACGAACAGTTTCCA
 GCGGCAGCTGCTCGTGAAGGAAAAGAGCATTGAGGCTTACGATGAAAATAAAGTTCTTCAAAAGGAG
 CTGCAGCGGCTCCATCACAAGCTCAAGGAAAAGGAGAAAAGAAATTGGATATAAAAAACATCTATGCTAATC
 GCCTGCCCAAATCCTCTCAAAGAAAAGAGAAAAGAAATCGAAAGGAAAACATGTATCCTGCCAGAGTGACTT
 TACAGACCAGTGTACAAAAGGAGTACAGACCGCTGAAGACTTTGAGCTGGAGGACTTTCTTTTACAGCC
 CAGACAGTTCTCTGCTATGAAAACAGATGGGATGAACCAGAATATCTCTTTCGTACCTGGAGTACCAGG
 ATCTCAACAAACATGGATCAGAGATGCTAAGTTCAGTGTGGGACAAGAAGGAAAAGTATGATGAAGATGA
 GGACCCATGCTCTGCAAAGCAGGAGGCCAGGAAGCCTGAGAGTGAATGGGCAAGAGAAGAACTTGATAAG
 GTGAAAGGCAAGTCAAGTCTGCTAGGGAGAGCAGAGAAGCTGGCATTGGAAGCTGGGAGATTTCCAAACGG
 AAAATTATCAAGCTCAGTCTGTCGATAAATTCGAAGATGAGGCAGAAAAGACTAAAGACAGAAATGCTCCT
 TGCCAAACTGAACGAAATCAACAAAGAACTCCAAGATCCTCAGAACCTCGGGCGGGCCCTTTGCCATTG
 CTGCCCAACTTCGAATCCAAGCTGCACTCTCCAGACAGAAGTACCAGACCTTACTCGTTCGCCGAGTCTT
 TAGACCGATCGTTAATGGACAACACTTGCAAGACTTGAGTTTTTAACTCCCAGGGGAGAAGGCGGGAG
 TCCAGGACCGATCCGAAGTCCAGGACAGATCCGAAGTCCAGCCCCTTAGATGAGTTTTCCATTTGGTAGC
 TATGTGCCTTCGTTTGGAAAAACATTAGGGAAGTCAAATCCACCTAGCCAAAAAAGTAGCCTTTTAGATT
 TCCAAAGCAACAGTTCTGAAAGCCCGAGTAAAGACAGTCTTGATTTAATGTCGAGGAAAAGAGAAAAGGC
 GACTCTGATGGAGCAGCTGTTTGGCCCCAGCGCCAGCAACACCAGTGTCTCCTCCAAGAGCACCGACCCA
 CACTTCCCTGCTGCCAGCAGAGGTGACATGGACCTCTTCATTTCTCTCTGGGGACAGAAAACAGCAGAG
 TCCGGGAGCCTGGCGATGAAGAGGAAGACCTTTTCCTCAGGGAAGGAAGAAGTTTTAATCCAAATAGACA
 CCGGTTGAAGCACGCAAGCAATAAGCCAACAGTACGGCCGTTGACTCTGTTGATGAGGACATTGAAGAG
 GTTACCCTCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210147 representing BC052060
 Red=Cloning site Green=Tags(s)

MGERARSPDIEQGGKGGKHPYSHYSSDLGSSPQSSGSPSPVNTTPCASTREKNPKRHLSDNQVHHPTVRK
 VSPKAVPSKKGIRVGFERSQSLNREPLRKDPDIVTKRVL SARLLKINELQNEVSELQVLAQLLKENKALK
 SLQYRQEKALNKFEDAENEISQLIHRHNNEITALKERLRKSQEKERATEKRVKETEGLFRTKFSLQKLLK
 KISEARHLPERDDLAKKLVS AELKLD DTERKIKEL SKNLELSTNSFQRQLLAERKRAFEAYDENKVLQKE
 LQRLHHKLKEKEKELDIKNIYANRLPKSSPKKEKEIERKHVSCQSDFTDQCTKGVQTAEDFELEDFPFTA
 QTVLCYENRWDEPEYLSYLEYQDLNKHGSEM LSSVLGQEGKYDEDEDPCSAKQEARKPESEWAREELDK
 YKGSALLGRAEKLAL EAGRFPTENYQAQSVDFEAEERLKTEMLLAKLNEINKELQDPQNLGRAPLPL
 LPNFESKHLSPDRSTRPYSPESLDRSFDNGQLQDL SFLTPRGE GSGPGPIRSPGQIRSPAPLDEF SFGS
 YVPSFGKTLGKSNPPSQKSSLLDFQSNSS E SPSKDSL DMSRKEKATLMEQLFGPSASNTSVSSKSTDP
 HFPAASRGMDPLHFLSGDRNSRVREPGDEEDLFLREGRSFNPNRHLKHASNKPTVTAVDSVDEIDEE
 VTLR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

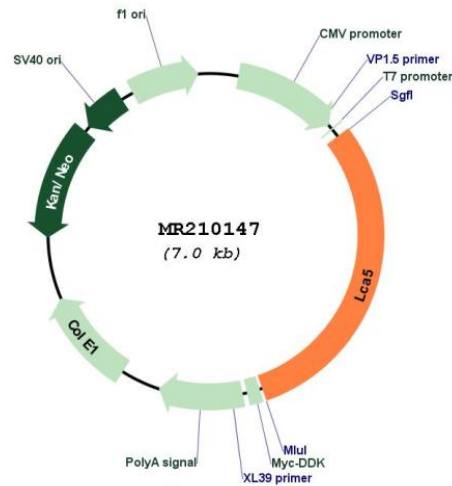
Restriction Sites:
 Cloning Scheme:

Sgfl-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: BC052060

ORF Size: 2112 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: [BC052060.1](#)

RefSeq Size: 4185 bp

RefSeq ORF: 2114 bp

Locus ID: 75782
Cytogenetics: 9 E2
MW: 153.5 kDa
Gene Summary: Involved in intraflagellar protein (IFT) transport in photoreceptor cilia.[UniProtKB/Swiss-Prot Function]