

## Product datasheet for **MG220565**

### Lca5 (NM\_029434) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lca5 (NM_029434) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lca5
Synonyms:	4930431B11Rik; 5730406O13Rik; AV274874; ORF64
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220565 representing NM_029434 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGAAAGAGCCCGAAGTCCAGATATTGAACAAGGAAAAAGGAGGCAAACACCCATACTCTCATT  
ATTCGTCTGACTTTGGTCTCACCACAGTCTCTGGCCCTCATCACCTGTCAACACGACGCCATGTGC  
CAGTACTAGGGAGAAGAATCCAAAAGACACTTGTGAGACAACCAAGTGCATACCCAACCGTTAGGAAA  
GTAAGTCTAAGGCTGTACCCAGCAAAAAGGCATCCGAGTGGGATTTCCGGTCCCAAAGCCTCAACAGAG  
AGCCACTTCGAAAGATCCAGATATCGTAACAAAGCGGGTCTTTCTGCCAGACTTCTGAAAATCAACGA  
GCTGCAGAACGAAGTGTGAGAATACAGGTCAAGTTAGCCAGCTGCTCAAAGAGAAACAAGGCTTTGAAA  
AGCCTTCAGTATCGTCAGGAGAAAGCGCTGAATAAGTTTGAAGATGCGGAGAACGAGATCTCACAACTTA  
TACACCGCCATAACAATGAGATTACTGCGCTCAAAGAAGCCTTACGAAAACTCAGGAGAAAGGAGCGGGC  
GACAGAGAAAAGAGTGAAGAGACAGAAGGTGAACTATTTAGGACGAAAATTTTCTTACAGAAAAGTAAA  
AAGATCTCCGAGGCCAGACACCTACCGGAGCGAGACGATTTGGCCAAGAAAAGTGGTTTCGGCAGAGTTAA  
AATTAGATGACACGGAGAGAAAGATTAAGGAGCTATCGAAGAACCTGGAGCTGAGCACGAACAGTTTCCA  
GCGGCAGCTGCTCGTGAAAGGAAAAGAGCATTCGAGGCTTACGATGAAAATAAAGTTCTTCAAAGGAG  
CTGCAGCGGCTCCATCACAAGCTCAAGGAAAAGGAGAAAGAATTGGATATAAAAAACATCTATGCTAATC  
GCCTGCCAAATCCTCTCAAAGAAAGAGAAAGAAATCGAAAGGAAACATGTATCCTGCCAGAGTGACTT  
TACAGACCAGTGTACAAAAGGAGTACAGACCGCTGAAGACTTTGAGCTGGAGACTTTCTTTTACAGCC  
CAGACAGTTCTCTGCTATGAAAACAGATGGGATGAACCAGAATATCTCTTCTGACCTGGAGTACCAGG  
ATCTCAACAAACATGGATCAGAGATGCTAAGTTCAAGTGTGGGACAAGAAGGAAAGTATGATGAAGATGA  
GGACCCATGCTCTGCAAAGCAGGAGGCCAGGAAGCCTGAGAGTGGTAATCTTTTGGTAAGAATAAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220565 representing NM\_029434  
 Red=Cloning site Green=Tags(s)

MGERARSPDIEQGGKGGKHPYSHYSSDFGSSPQSSGSSPVNTTPCASTREKNPKRHLSDNQVHHPTVRK  
 VSPKAVPSKKGIRVGFERSQSLNREPLRKDPDIVTKRVL SARLLKINELQNEVSELQVLAQLLKENKALK  
 SLQYRQEAKLNKFEDAENEISQLIHRHNNEITALKERLRKSQEKERATEKRVKETE GELFRTKFSLQKLLK  
 KISEARHLPERDDLAKKLVSAELKLD DTERKIKELSKNLELSTNSFQRQLLAERKRAFEAYDENKVLQKE  
 LQRLHHKLEKEKELDIKNIYANRLPKSSPKKEKEIERKHVSCQSDFTDQCTKGVQTAEDFELEDFPFTA  
 QTVLCYENRWDEPEYLSYLEYQDLNKHGSEM LSSVLGQEGKYDEDEDPCSAKQEARKPESGNLLVRIS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_029434

**ORF Size:** 1257 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\\_029434.3](#), [NP\\_083710.2](#)

**RefSeq Size:** 2010 bp

**RefSeq ORF:** 1260 bp

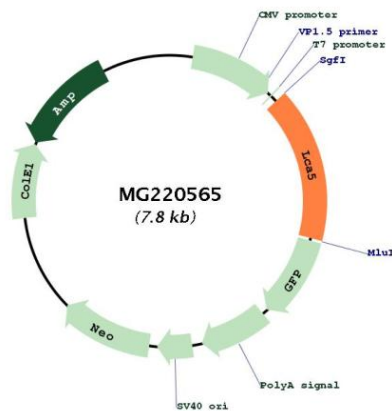
**Locus ID:** 75782

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

**Cytogenetics:** 9 E2

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

**Product images:**



Circular map for MG220565