

## Product datasheet for **RN210565**

### **Lgi1 (NM\_145769) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Lgi1 (NM_145769) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lgi1
Synonyms:	MGC105310
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN210565 representing NM\_145769  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAATCAGAAAGCATCAGAAGGATGGGAAATGCCTGCATTCCCCTGAAAAGAATTGCCTATTTTCCTAT  
 GCCTCTTTTCTGTGGTTTTGCTGACTGAGGGGAAGAAACCAGCGAAGCCAAAATGCCTGCCTGTGTGTAC  
 TTGTAGCAAAGATAACGCTTTATGTGAGAATGCGAGATCCATTCCACGCACCGTTCTCCTGATGTTATC  
 TCACTATCCTTTGTGAGATCTGGTTTTACTGAAATCTCAGAAGGGAGTTTCTTGTTCACACCATCGCTGC  
 AGCTCTTGTTATTCACGTCGAACTCCTTTGATGTGATCAGTGACGATGCTTTTATTGGTCTTCCACACCT  
 AGAATATTTATTCATAGAAAACAACAATATCAAGTCCATTTCAAGACATACTTTCCGGGGACTCAAGTCT  
 CTGATTCACTTGAGTCTTGCAAACAACAATCTCCAGACACTCCCAAAAGACATTTTCAAAGGCTGGATT  
 CTTTAAACAAATGTGGACCTAAGAGGGAACCTTTAACTGTGACTGTAAGTGAAGTGGTGGTGGAAATG  
 GCTCGGCCACACCAACGCAACCGTGAAGACATCTACTGCGAAGGACCACCGGAGTATAAGAAACGTA  
 ATCAACAGCCTCTCCCCAAGGATTTTGACTGTATCATTACAGAATTTGCAAAGTCCAAGACCTGCCTT  
 ACCAGTCACTGTCCATAGATACCTTTTCTATTGAAATGATGAATATGTAGTCATTGCTCAGCCTTTTAC  
 TGGAAAATGCATTTTCTGGAATGGGACCATGTAGAGAAGACCTCCGGAATTATGACAACATTACAGGC  
 ACGTCCACTGTGGTGTGCAAGCCATAGTCATTGACACTCAGCTCTATGTATTGTGGCCAGCTGTTTG  
 GTGGCTCTCATATCTATAAGCGGGATGGCTTTGCAAACAAATTCATAAAAATCCAAGATATTGAAGTCT  
 CAAAATTCGAAAACCAATGACATCGAAACATTCAAGATTGAAGACAACCTGGTACTTTGTAGTTGCTGAC  
 AGTTCCAAAGCTGGCTTTACTACCATTTACAAATGGAATGGAAACGGATTCTACTCCCAACATCCTTAC  
 ATGTTGGTACAGGGACTGATGTGGAATACCTAGAAATAGCCAGACCACCATGACCCACAGAACACC  
 TCATTTGATCCTGTCCAGTAGTTCTCAGCGCCCTGTTATTTACCAGTGGAGCAAAGCAACACAGTTATTC  
 ATTAACCAGACTGACATTTCCAACATGGAGGATGTGTATGCAAGTGAAGCACTTCTCTGTGAAAGGTGATG  
 TGTACATTTGCTTGACCAGATTCATTGGCGACTCCAAAGTCATGAAGTGGGGCGGCTCCTCCTTCCAGGA  
 CATTACAGAGGATGCCATCTCGAGGATCCATGGTGTCCAGCCTTTCAGATAAATAATTACCAATATGCA  
 ATTCTGGGAAGCGATTACTCCTTTACTCAAGTGTATAACTGGGATGCAGAGAAAGCAAGTTTGTGAAGT  
 TTCAGGAGTTAAATGTTACAGCACCCAGATCATTACGCACGTGCCATTAACAAGCGTAATTTTCTCTT  
 CGCTTCCAGTTTTAAGGGAAACACACAGATTTACAAACATGTCATAGTTGACTTAAGCGCATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_145769
- Insert Size:** 1674 bp
- OTI Disclaimer:** 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).
- 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\\_145769.3](#), [NP\\_665712.1](#)

**RefSeq Size:** 1674 bp

**RefSeq ORF:** 1674 bp

**Locus ID:** 252892

**UniProt ID:** [Q8K4Y5](#)

**Cytogenetics:** 1q53

**Gene Summary:** Plays a role in suppressing the production of MMP1/3 through the phosphatidylinositol 3-kinase/ERK pathway (By similarity). Regulates voltage-gated potassium channels assembled from KCNA1, KCNA4 and KCNAB1. It slows down channel inactivation by precluding channel closure mediated by the KCNAB1 subunit. Ligand for ADAM22 that positively regulates synaptic transmission mediated by AMPA-type glutamate receptors.[UniProtKB/Swiss-Prot Function]