

Product datasheet for **MR208823**

Lgi1 (NM_020278) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lgi1 (NM_020278) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lgi1
Synonyms:	BB130740
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208823 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATCAGAAAGCAGCAGAAGGATGGGAAATGCCTGCATTCCCCTGAAAAGAATTGCCTATTTCTCTAT
 GCCTCTTTTCTGTGGTTTTGCTGACTGAGGGGAAGAAACCAGCGAAGCCAAAATGCCTGCCGTGTGTAC
 TTGTAGCAAAGATAACGCTTTATGTGAGAAATGCGAGATCCATTCCACGCACCGTTCTCCTGATGTTATC
 TCACTATCCTTTGTGAGATCTGGTTTTACTGAAATCTCAGAAGGGAGTTTCTTATTCACACCATCGCTGC
 AGCTCTTGTTATTTACGTCGAACTCCTTTGATGTGATCAGTGATGATGCTTTTATTTGGTCTTCCACATCT
 AGAATATTTATTCATAGAAAACAACAATATCAAGTCCATTTCAAGACATACTTTCCGGGGACTCAAGTCT
 TTGATTCACTTGAGTCTTGCAAAACAACAATCTCCAGACACTCCCAAAAGACATTTTCAAAGGCTGGATT
 CCTTAACAAATGTGGACCTAAGAGGGAACGCATTTAATTGTGACTGTAAGTTGAAGTGGCTGGTGGAAATG
 GCTCGGCCATACCAATGCAACTGTGGAAGACATCTACTGTGAAGGCCACCGAAATAAAGAAACGGAAA
 ATCAATAGCCTCTCCCCAAGGATTTTGTACTGTATCATTACAGAATTTGCAAAGTCCAAGACCTACCTT
 ATCAGTCGCTGTCCATAGACACTTTTTCTTATTTGAATGATGAATATGTAGTCATTGCTCAGCCTTTTAC
 TGGAAAATGCATTTTCTGGAATGGGACCACGTAGAGAAGACCTCCGGAATTATGACAACATTACAGGC
 ACGTCCACTGTGGTGTGCAAGCCATAGTTATTGACACTCAGCTCTATGTATTGTGCCAGCTGTTTTG
 GTGGCTCTCATATCTATAAGCGAGATGGTTTTGCAAAACAATTCATAAAAATCCAAGATATTGAAGTTCT
 CAAAATTCGAAAACCAATGACATCGAAACATTAAGATTGAAGCAACTGGTACTTCGTTGTGCGCTGAC
 AGTTCCAAAGCTGGGTTTACTACCATTTACAAGTGGAAATGAAACGGATTCTACTCCCACCAATCCTTAC
 ATGCCTGGTACAGGGATACTGATGTGGAATACCTTGAATAGCCAGACCACCATGGCCCTCAGAACACC
 TCATTTAATCCTGTCCAGTAGTTCTCAGCGCCCTGTTATTTACCAGTGGAGCAAAGCAACACAGCTATTC
 ACTAACCAAAACCGACATTCCTAACATGGAGGACGTATACGCGGTGAAGCACTTCTCTGTGAAAGGTGATG
 TGTACATCTGCTTACCAGATTCATTGGCGACTCTAAAGTCATGAAGTGGGGCGGCTCCTCCTCCAGGA
 CATCCAGAGGATGCCATCTCGAGGATCCATGGTGTCCAACCTCTCAGATAAATAATTACCAATATGCA
 ATTCTCGAAGCGATTACTCCTTACTCAAGTGTATAACTGGGATGCAGAGAAAGCCAAATTTGTGAAGT
 TTCAGGAGTTAAACGTTACGGCACCCAGATCATTACACACGTATCCATTAATAAGCGTAATTTTCTCTT
 TGCTTCCAGTTTTAAGGGAAACACGCAGATTTACAACATGTCATAGTTGACTTAAGCGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208823 protein sequence
 Red=Cloning site Green=Tags(s)

MESESSRRMGNACIPLKRIAYFLCLFSVLLTEGKPAKPKCPAVCTCSKDNALCENARSIPRTVPPDVI
 SLSFVRSGFTEISEGSFLFTPQLLLLFTSNFSDVISDDAFIGLPHLEYLFIENNNIKSISRHTFRGLKS
 LIHLSLANNLQTLPKDIFKGLDSL TNVDLRGNFNCCKLKWVWELGHTNATVEDIYCEGPPEYKRRK
 INSLSPKDFDCIITEFAKSQDLPIYQSLSIDTFSYLNDEYVVIAPFTGKCIFLEWDHVEKTFRNYDNITG
 TSTVVCKPIVIDTQLYVIVAQLFGGSHIYKRDGFANKFKIQDIEVLKIRKPNDIETFKIEDNWFVAD
 SSKAGFTTIYKWNNGFVSHQSLHAWYRDTDVEYLEIARPLALRTPHLILSSSSQRPVIYQWSKATQLF
 TNQTDIPNMDVYAVKHF SVKGDVYICL TRF IGDSKVMKWGSSSFQDIQRMP SRGSMVFQPLQINNYQYA
 ILGSDYSFTQVYNWDAEKAKFVKFQELNVQAPRSFTHVSINKRNFLFASSFKGNTQIYKHVIVDLSA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_020278

ORF Size: 1674 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_020278.3](#)
RefSeq Size: 4285 bp

RefSeq ORF: 1674 bp

Locus ID: 56839

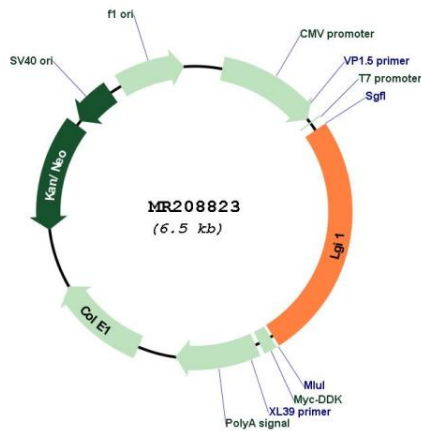
UniProt ID: [Q9JIA1](#)

Cytogenetics: 19 C3

MW: 63.6 kDa

Gene Summary: 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. Plays a role in suppressing the production of MMP1/3 through the phosphatidylinositol 3-kinase/ERK pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208823