

Product datasheet for **MG208823**

Lgi1 (NM_020278) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lgi1 (NM_020278) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lgi1
Synonyms:	BB130740
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208823 representing NM_020278
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAATCAGAAAGCAGCAGAAGGATGGGAAATGCCTGCATTCCCCTGAAAAGAATTGCCTATTTCTCTAT
 GCCTCTTTTCTGTGGTTTTGCTGACTGAGGGGAAGAAACCAGCGAAGCCAAAATGCCTGCCGTGTGTAC
 TTGTAGCAAAGATAACGCTTTATGTGAGAAATGCGAGATCCATTCCACGCACCGTTCTCCTGATGTTATC
 TCACTATCCTTTGTGAGATCTGGTTTTACTGAAATCTCAGAAGGGAGTTTCTTATTCACACCATCGCTGC
 AGCTCTTGTTATTTACGTCGAACTCCTTTGATGTGATCAGTGATGATGCTTTTATTTGGTCTTCCACATCT
 AGAATATTTATTCATAGAAAACAACAATATCAAGTCCATTTCAAGACATACTTTCCGGGGACTCAAGTCT
 TTGATTCACTTGAGTCTTGCAAACAACAATCTCCAGACTCCCAAAAGACATTTTCAAAGGCTGGATT
 CCTTAACAAATGTGGACCTAAGAGGGAACGCATTTAATTGTGACTGTAAGTTGAAGTGGCTGGTGGAAATG
 GCTCGGCCATACCAATGCAACTGTGGAAGACATCTACTGTGAAGGCCACCGGAATATAAGAAACGGAAA
 ATCAATAGCCTCTCCCCAAGGATTTTACTGTATCATTACAGAAATTTGCAAAGTCCAAGACCTACCTT
 ATCAGTCGCTGTCCATAGACACTTTTTCTTATTTGAATGATGAATATGTAGTCATTGCTCAGCCTTTTAC
 TGGAAAATGCATTTTCTGGAATGGGACCACGTAGAGAAGACCTCCGGAATTATGACAACATTACAGGC
 ACGTCCACTGTGGTGTGCAAGCCATAGTTATTGACACTCAGCTCTATGTATTGTGGCCAGCTGTTTG
 GTGGCTCTCATATCTATAAGCGAGATGGTTTTGCAAACAAATTCATAAAAATCCAAGATATTGAAGTTCT
 CAAAATTCGAAAACCAATGACATCGAAACATTAAGATTGAAGCAACTGGTACTTCGTTGTGCGTGC
 AGTTCCAAAGCTGGGTTTACTACCATTTACAAGTGGAAATGGAAACGGATTCTACTCCCAACCTTAC
 ATGCTTGGTACAGGGTACTGATGTGGAATACCTTGAATAGCCAGACCACCATGGCCCTCAGAACAC
 TCATTTAATCCTGTCCAGTAGTTCTCAGCGCCCTGTTATTTACCAGTGGAGCAAAGCAACACAGCTATTC
 ACTAACCAAAACCGACATTCCTAACATGGAGGACGTATACGCGGTGAAGCACTTCTCTGTAAAGGTGATG
 TGTACATCTGCTTACCAGATTCATTGGCGACTCTAAAGTCATGAAGTGGGGCGGCTCCTCCTTCCAGGA
 CATCCAGAGGATGCCATCTCGAGGATCCATGGTGTCCAACCTTTCAGATAAATAATTACCAATATGCA
 ATTCTCGAAGCGATTACTCCTTACTCAAGTGTATAACTGGGATGCAGAGAAAGCCAAATTTGTGAAGT
 TTCAGGAGTTAAACGTTACGGCACCCAGATCATTACACACGTATCCATTAATAAGCGTAATTTTCTCTT
 TGCTTCCAGTTTTAAGGGAAACACGCAGATTTACAACATGTCATAGTTGACTTAAGCGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208823 representing NM_020278
 Red=Cloning site Green=Tags(s)

MESESSRRMGNACIPLKRIAYFLCLFSVLLTEGKPKPKPAVCTCSKDNALCENARSIPRTVPPDVI
 SLSFVRSGFTEISEGSFLFTPSLQLLLFTSNSFDVISDDAFIGLPHLEYLFIENNNIKSISRHTFRGLKS
 LIHLSLANNLQTLPKDIFKGLDSL TNVDLRGNFNCCKLKWLVWLGHTNATVEDIYCEGPPEYKRRK
 INLSLSPKDFDCIITEFAKSQDLPYQSLSIDTFSYLNDEYVIVIAQPFTGKCIFLEWDHVEKTRFRNYDNITG
 TSTVVCKPIVIDTQLYVIVAQLFGGSHIYKRDGFANKFIKIQDIEVLKIRKPNDIETFKIEDNWFVVD
 SSKAGFTTIYKWNNGFYSHQSLHAWYRDTDVEYLEIARPLALRTPHLILSSSSQRPVIYQWSKATQLF
 TNQTDIPNMEDVYAVKHF SVKGDVYICL TRFIGDSKVMKWGSSSFQDIQRMPSRGSMVFQPLQINNYQYA
 ILGSDYSFTQVYNWDAEKAKFVKFQELNVQAPRSFTHVSINKRNFLFASSFKGNTQIYKHVIVDLA

TRTRPLE – GFP Tag – V

Restriction Sites:

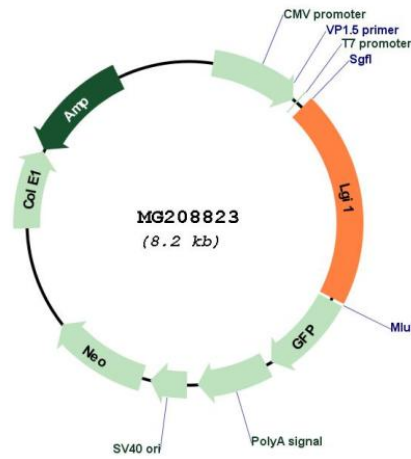
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_020278
ORF Size:	1671 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:	<ol style="list-style-type: none">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
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]