

Product datasheet for **SC113671**

LGI2 (NM_018176) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGI2 (NM_018176) Human Untagged Clone
Tag:	Tag Free
Symbol:	LGI2
Synonyms:	LGIL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113671 sequence for NM_018176 edited (data generated by NextGen Sequencing)

ATGGCGCTGCGGAGAGGCGGCTGCGGAGCGCTCGGGCTGCTGCTGCTGCTGCTGGCGCG
CGTGCTGATACCGCGGAGCGCGCAGGTGAGGCGGCTGGCGCGCTGCCCGCCACTTGC
AGCTGTACCAAGGAGTCTATCATCTGCGTGGGCTCTTCTGGGTGCCAGGATCGTGCCG
GGCGACATCAGCTCCCTGAGCCTGGTAAATGGGACGTTTTAGAAATCAAGGACCGAATG
TTTTCCCATCTGCCTTCTCTGCAGCTGCTATTGCTGAATTTCTAACTATTACGATCATC
CGGGATGATGCTTTTGCTGGACTTTTTCATCTTGAATACCTGTTCAATTGAAGGGAACAAA
ATAGAAACCATTTCAAGAAATGCCTTTCGTGGCCTCCGTGACCTGACTCACCTTTCTTTG
GCCAATAACCACATAAAAGCACTACCAAGGGATGTCTTCAGTGATTAGACTCTCTGATT
GAACTAGATTTGAGGGGAATAAATTTGAATGTGACTGCAAGGCCAAGTGGCTATACCTG
TGGTTGAAGATGACAAATCCACCGTTTCTGATGTGCTGTGTTATGGTCCACCAGGATAT
CAGGAAAAGAAGCTAAATACGCTGACCAGCTTTGACTAGTAATGCACAACTACAGATTTT
TGTTGCTACAGACTTTACCTACCAAGTCGGTTTCAGTGGATACGTTTCAACTCCAAGAAC
GATGTGACGTGGCCATCGCGCAGCCAGCATGGAGAAGTGCATGGTGTGGAGTGGGAC
CACATTGAAATGAATTTCCGGAGCTATGACAACATTACAGGTCAAGTCCATCGTGGGCTG
AAGGCCATTCTCATCGATGATCAGGTCTTTGTTGGTGGTAGCCAGCTCTTCGGTGGCTCT
CACATTTACAAATACGACGAGAGTTGGACCAAAATTTGTCAAATTTCAAGACATAGAGGTC
TCTCGCATTTCCAAGCCCAATGACATCGAGCTGTTTCAGATCGACGACGAGACGTTCTTT
GTCATCGCAGACAGCTCAAAGGCTGGTCTGTCCACAGTTTATAAATGGAACAGCAAAGGA
TTCTATTCTTACCAGTCACTGCACGAGTGGTTCAGGGACACGGATGCGGAGTTTGTGGAT
ATCGATGGAATAATCGCATCTCATCTGTCCAGCCGCTCCCAGTCCCCATCATCTCTCCAG
TGGAATAAAAGCTCTAAGAAGTTTGTCCCCATGGTGACATCCCCAACATGGAGGACGTA
CTGGCTGTGAAGAGCTTCCGAATGCAAAATACCTCTACCTTTCCCTTACCCGCTTCATC
GGGACTCCCGGGTCATGAGGTGGAACAGTAAGCAGTTTGTGGAGATCCAAGCTCTTCCA
TCCCGGGGGGCCATGACCTGCAGCCCTTTTCTTTAAAGATAATCACTACCTGGCCCTG
GGGAGTGACTATACATTTCTCTCAGATATACCAAGTGGGATAAAGAGAAGCAGCTATTCAA
AAGTTTAAGGAGATTTATGTGCAGGCGCCTCGTTCAATTCACAGCTGTCTCCACCGACAGG
AGAGATTTCTTTTTTGATCCAGTTTCAAAGGGAAAAACAAGATTTTTGAACATATAATT
GTTGACTTAAGTTTGTGA

Clone variation with respect to NM_018176.3
1518 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018176 unedited

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GCGGCCGCGAATTCGGCACGAGGGCAGAGCAGCGAGCGGCCGCCGCTCTGCAGCGGCGC
CGGGTCCGAGCGCGCGGCGCGGCGGTGGGGTTCGGGGCCCGGGCGGGGAGCGGGGACCGG
GCATGGCGCTGCGGAGAGCGGCTGCGGAGCGCTCGGGCTGCTGCTGCTGCTGCTGGGCG
CCGCGTGCCTGATACCGCGAGCGCGCAGGTGAGGCGGCTGGCGCGCTGCCCGCCACTT
GCAGCTGTACCAAGGAGTCTATCATCTGCGTGGGCTCTTCTGGGTGCCCAGGATCGTGC
CGGGCGACATCAGCTCCCTGAGCCTGGTAAATGGGACGTTTTTCAGAAATCAAGGACCGAA
TGTTTTCCCATCTGCCTTCTCTGCAGCTGCTATTGTGAATTCTAACTCATTACGATCA
TCCGGGATGATGCTTTTCTGGACTTTTTCATCTTGAATACCTGTTTCATTGAAGGGAACA
AAATAGAAACCATTTCAAGAAATGCCTTTCGCGGCCTCCGCGACCTGACTCACCTTTCTT
TGGCCATACCCACATAAAGGACATACCAAGGAGTGCTTCAGTGTATTAGACTCTCTGA
TTGAACATAAATTTGAGGGGTAAATAAATTTGATGTACTGCAAAAGCCAGGGGCTATACCT
GTGGTTGAAGATGACAAAATTCACCGTCCCTGATGGGTGGCGAA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018176 unedited <pre> GGCTTAAAGTCAGGGAACAACAACACATTTCATATTTGTGGCAAAACATCTACCTACTCA TGACATGGCAAATAATCATTTTACAATAACAATACAGTACAATATGATCGTGCTACTTTC ATGGCTAGGAATGAAGTTGTTGGGTTTCTTTTCAGAGCTACCCCTAAAGGCCTTCACTT TATATTCTCTGAAGAGAACAGCTAACCCAGGCGGAACATCCACTAAGAATCTTCCACATA ACCAGACCCCAGGAGCTTGCCTATTGCCCATACCAGAGAGGCCCATTTGGAAATACACCA TCTGGTCTCTTGAGCACAGACCTGGAGTGTGGGATTGAGCTTGGCTGGCTCCAAAGCTGG CCCTACTGATCAGCCTGAGATCCCAGCCTGCACAGGCTGATTCCACTGCCAACACGTG GCCCCATGTGGGTCTGCGGGGGTTCTTTGGTAAAGTACTGGGAGAGGAAGGAGTCTT CCTATCTGAGTATCTTGGGTTGTGATTTGGTGTGGGCTGCACTGGNCGTGCTTTGCACCC NCTCNACAAACAGGACTGTTCCCAGCGGGGCCGAAGGCCGGGGGCTGCCGGGAAGTGG GTNTCCCCTTCTCTGACTTTCCCCTTGCCCGCGGGCNGGGCNCGGCCTCTGCCGGGCC ACCTCTCGGCCCCCTCCCGTCCGCGTTTGTGTTAGTCTCACTTTGTCCNTGCCTTTT GTTTCCNACGTTTCTCCGCTCCNCGNNTCCCTGCCCCCTCGGTTCTCCCCCTCTCCCT CCCGTCTGTTTTACCCACCGCCGTNCCCGCGGGTCCGCTCTTCAACCTCCGTCCAGAGAT AGGGCCCAAGGGCGTCGCGCCCGTGTTCGCCGTCCTTCGTTGGAGCCACCGATAGCAGT AGCGAGCACATAAAAGAAAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_018176
Insert Size:	3400 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:	<u>NM_018176.2</u> , <u>NP_060646.2</u>
RefSeq Size:	3323 bp
RefSeq ORF:	1638 bp
Locus ID:	55203
UniProt ID:	<u>Q8N0V4</u>
Cytogenetics:	4p15.2
Domains:	LRRCT, LRR, EPTP
Protein Families:	Secreted Protein, Transmembrane

Gene Summary:

Required for the development of soma-targeting inhibitory GABAergic synapses made by parvalbumin-positive basket cells.[UniProtKB/Swiss-Prot Function]