

Product datasheet for **SC116925**

LGI1 (NM_005097) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGI1 (NM_005097) Human Untagged Clone
Tag:	Tag Free
Symbol:	LGI1
Synonyms:	ADLTE; ADPAEF; ADPEAF; EPITEMPIN; EPT; ETL1; IB1099
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC116925 sequence for NM_005097 edited (data generated by NextGen Sequencing)

```

ATGGAATCAGAAAAGAAGCAAAAGGATGGGAAATGCCTGCATTCCCCTGAAAAGAATTGCT
TATTTCTATGTCTCTTATCTGCGCTTTTGCTGACTGAGGGGAAGAAACCAGCGAAGCCA
AAATGCCTGCCGTGTACTTGTACCAAAGATAATGCTTTATGTGAGAATGCCAGATCC
ATTCCACGCACCGTTCCCTCCTGATGTTATCTCATTATCCTTTGTGAGATCTGGTTTTACT
GAAATCTCAGAAGGGAGTTTTTTTATTACGCCATCGCTGCAGCTTTGTTATTCACATCG
AACTCCTTTGATGTGATCAGTGATGATGCTTTTATTGGTCTTCCACATCTAGAGATTTA
TTCATAGAAAACAACAACATCAAGTCAATTTCAAGACATACTTTCCGGGGACTAAAGTCA
TTAATTCACTTGAGCCTTGCAAACAACAATCTCCAGACACTCCCAAAAGATATTTTCAA
GGCCTGGATTCTTTAACAAATGTGGACCTGAGGGGTAATTCATTTAATTGTGACTGTAAA
CTGAAATGGCTAGTGAATGGCTTGCCACACCAATGCAACTGTTGAAGACATCTACTGC
GAAGGCCCCCAAGATAACAAGAAGCGCAAATCAATAGTCTCTCCTCGAAGGATTCGAT
TGCATCATTACAGAATTTGCAAAGTCTCAAGACCTGCCTTATCAATCATTGTCCATAGAC
ACTTTTTCTTATTTGAATGATGAGTATGTAGTCATCGCTCAGCCTTTTACTGGAAAATGC
ATTTTCCTTGAATGGGACCATGTGGAAAAGACCTTCCGGAATTATGACAACATTACAGGC
ACATCCACTGTAGTATGCAAGCCTATAGTCATTGAAACTCAGCTCTATGTTATTGTGGCC
CAGCTGTTTGGTGGCTCTCACATCTATAAGCGAGACAGTTTTTGCAAATAAATTCATAAAA
ATCCAGGATATTGAAATCTCAAATCCGAAAACCCAATGACATTGAAACATTCAAGATT
GAAAACAACCTGGTACTTTGTTGTTGCTGACAGTTCAAAGCTGGTTTTACTACATTTAC
AAATGGAACGGAAACGGATTCTACTCCCATCAATCCTTACACGCGTGGTACAGGGACACT
GATGTGGAATATCTAGAAATAGTCAGAACACCTCAGACACTCAGAACGCCTCATTTAATT
CTGTCTAGTAGTTCCCAGCGTCTGTAATTTATCAGTGGAAACAAGCAACAATTATTC
ACTAACCAAACACTGACATTCCTAACATGGAGGATGTGTACGCAGTGAAGCACTTCTCAGTG
AAAGGGGACGTGTACATTTGCTTGACAAGATTCATTGGTATTCCAAAGTCATGAATGG
GGAGGCTCCTCGTCCAGGATATTCAGAGGATGCCATCGCGAGGATCCATGGTGTCCAG
CCTCTTCAAATAAATAATTACCAATATGCAATCTTGGAAGTGATTACTCCTTTACTCAA
GTGTATAACTGGGATGCAGAGAAAGCCAAATTTGTGAAATTTAGGAATTAATGTTTCAG
GCACCAAGATCATTACACATGTGTCCATTAATAAGCGTAATTTCTTTTGTCTCCAGT
TTTAAGGGAAATACACAGATTTACAACATGTCATAGTTGACTTAAGCGCATGA
    
```

Clone variation with respect to NM_005097.2

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_005097 unedited
NGGTTCCANGATATTTGTATACGACTCACTATAGNNGCGCGCAATTCGGCAGGAGG
GAGCAGTGCATTGCTGGAGCGAGGAGAAGCTCACGAATCAGCTGCAGGTCTCTGTTTTGA
AAAAGCAGAGATACAGAGGCAGAGGAAAAGGGTGGACTCCTATGTGACCTGTTCTTAGAG
CAAGACAATCACCATCTGAATTCAGAAGCCCTGTTTCATGGTTGGGATATTTTCTCGAC
TGCATGGAATCAGAAAAGAAGCAAAAGGATGGGAAATGCCTGCATTCCCCTGAAAAGAATT
GCTTATTTCTATGTCTCTTATCTGCGCTTTTGCTGACTGAGGGGAAGAAACCAGCGAAG
CCAAAATGCCCTGCCGTGTACTTGTACCAAAGATAATGCTTTATGTGAGAATGCCAGA
TCCATTCCACGCACCGTTCCCTCCTGATGTTATCTCATTATCCTTTGTGAGATCTGGTTTT
ACTGAAATCTCAGAAGGGAGTTTTTTTATTACGCCATCGCTGCAGCTCTTGTATTACA
TCGAACTCCTTTGATGTGATCAGTGATGATGCTTTTATTGGTCTTCCACATCTAGAGTAT
TTATTCATAGAAAACAACAACATCAAGTCAATTTCAAGACATACTTTCCGGGGACTAAAG
TCATTAATTCACTTGAGCCTTGCAAACAACAATCTCCAGACACTCCCAAAAGAATTTTCA
AAGGCCTGGATTCTTTAACANATGTGGACCTGAGGGGTAATTCATTTATTGTGACTGGTA
ACTGAAATGGCTAGTGAATGGCTTGCCACACCAATGCACTGTTGAAGACATCTACTGC
GAAGGCCCCCAAGATTACAGAGCGCAAATCATAGTCTCTCCTCGAAGATTTGATTGCTC
ATTC
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005097 unedited CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGAAAAAATGTAAACAT TTTATTTGGCAGTTGTTTCTGTACACATGAATAAATAAATGGAAAAGTACATATTAATAT TTCTTTTTGGAGTAACAGATACCATTAACGCTTATTTACACATCTTCACTGCAAAGAAC AGTTACACAATTAATTTTGTCTTATAAAAGGTAACCTCCACATCACTGGACTGGACAG TTAAAGGATGAATAACTGGTAAGGCTTGGTTTTAACACCAAAAAGTGGAAGGGGGTTT TTTTTTGCGGGGGGAAAAAACCCTTTTTTGTGTTTTTCCCGGGGGTTT TTGGAAAAAATTTGTGGGGGCGCCACAAAAGAGGGGGGGGGCCCCCCCC CAAAAAAAGGGGTGGGGGNGNTTTTTTTTTTTTTTTCTTTAAAGGG GGGAGAAAAAANNCTTTTTTTTTTTCTCCCGGGGGGGGGGGGGTGT CTTCCCCCCCCCTCTTATAATACAAAAACNNNTTGTGTTTTTTTTTT TCCCCCGCCCGGGGGGGGGGGGGAGGGAGAAAAACCCATCTCATTNN TTCTTTTTTTTTTTTTTTAGGAAAATAAGGGGNGGGGGNNGCCCCCNCT CTCTCTCNTTCTTCTCTCTCTGTATCTCATACCCCTNCCCACTCCNCCATTANN NNTATATGTTNGGGAATGCAAAGGACTGCCGGNGCTTCTGCCCTCCGTTCTGTTCC TCCTCTCTCCATGCCCTTTACCGTAGTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_005097
Insert Size:	2240 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:	<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_005097.1 , NP_005088.1
RefSeq Size:	2254 bp
RefSeq ORF:	1674 bp
Locus ID:	9211
UniProt ID:	O95970
Cytogenetics:	10q23.33
Domains:	LRRCT, LRR, LRR_TYP, EPTP
Protein Families:	Druggable Genome, Secreted Protein

Gene Summary:

This gene encodes a member of the secreted leucine-rich repeat (LRR) superfamily and shares homology with members of the SLIT protein family. The encoded protein may regulate the activity of voltage-gated potassium channels and may be involved in neuronal growth regulation and cell survival. This gene is rearranged as a result of translocations in glioblastoma cell lines, and it is frequently down-regulated or rearranged in malignant gliomas. Mutations in this gene result in autosomal dominant lateral temporal epilepsy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).