

Product datasheet for **RG205340**

LGI1 (NM_005097) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGI1 (NM_005097) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LGI1
Synonyms:	ADLTE; ADPAEF; ADPEAF; EPITEMPIN; EPT; ETL1; IB1099
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205340 representing NM_005097
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCAGAAAGAAGCAAAGGATGGGAAATGCCTGCATTCCCCTGAAAAGAATTGCTTATTTCTCTAT
 GTCTTTATCTGCGCTTTTGTGACTGAGGGGAAGAAACCAGCGAAGCCAAAATGCCTGCCGTGTGTAC
 TTGTACCAAAGATAATGCTTTATGTGAGAAATGCCAGATCCATTCCACGCACCGTTCTCCTGATGTTATC
 TCATTATCCTTTGTGAGATCTGGTTTTACTGAAATCTCAGAAGGGAGTTTTTTTATTCACGCCATCGCTGC
 AGCTCTTGTTATTCACATCGAACTCCTTTGATGTGATCAGTGATGATGCTTTTATTTGGTCTTCCACATCT
 AGAGTATTTATTCATAGAAAACAACAACATCAAGTCAATTTCAAGACATACTTTCCGGGGACTAAAGTCA
 TTAATTCACTTGAGCCTTGCAAACAACATCTCCAGACACTCCCAAAAGATATTTTCAAAGGCTGGATT
 CTTTAAACAAATGTGGACCTGAGGGGTAATTCATTTAATTGTGACTGTAAGTCAAATGGCTAGTGGAAATG
 GCTTGGCCACACCAATGCAACTGTTGAAGACATCTACTGCGAAGGCCCCCAAGAACAAGAAGCGCAAA
 ATCAATAGTCTCTCCTCGAAGGATTTCCGATTGCATCATTACAGAATTTGCAAAGTCTCAAGACCTGCCTT
 ATCAATCATTGTCCATAGACACTTTTTCTTATTTGAATGATGAGTATGTAGTCATCGCTCAGCCTTTTAC
 TGGAAAATGCATTTTCTTGAATGGGACCATGTGGAAAAGACCTTCCGGAATTAAGACAACATTACAGGC
 ACATCCACTGTAGTATGCAAGCCTATAGTCATTGAAACTCAGCTCTATGTTATTGTGGCCAGCTGTTTG
 GTGGCTCTCACATCTATAAGCGAGACAGTTTTGCAAATAAATTCATAAAAATCCAGGATATTGAAATTCT
 CAAAATCCGAAAACCAATGACATTGAAACATTAAGATTGAAAACAACCTGGTACTTTGTTGTTGCTGAC
 AGTTCAAAGCTGGTTTTACTACCATTTACAAATGGAACGGAAACGGATTCTACTCCCATCAACCTTAC
 ACGCGTGGTACAGGGACACTGATGTGGAATATCTAGAAATAGTCAGAACACCTCAGACACTCAGAACGCC
 TCATTTAATTCTGTCTAGTAGTCCAGCGTCTGTAATTTATCAGTGGAAACAAAGCAACACAATTATTC
 ACTAACCAAACACTGACATTCCTAACATGGAGGATGTGTACGAGTGAAGCACTTCTCAGTGAAGGGGACG
 TGTACATTTGCTTGACAAGATTCATTGGTATTCCAAAGTCATGAAATGGGGAGGCTCCTCGTTCCAGGA
 TATTCAGAGGATGCCATCGCGAGGATCCATGGTGTCCAGCCTTCAAATAAATAATTACCAATATGCA
 ATTCTTGGAAAGTATTACTCCTTACTCAAGTGTATAACTGGGATGCAGAGAAAGCCAAATTTGTGAAAT
 TTCAGGAATTAATGTTCCAGGCACCAAGATCATTACACATGTGTCCATTAATAAGCGTAATTTCTTTT
 TGCTCCAGTTTTAAGGGAAATACACAGATTTACAAACATGTCATAGTTGACTTAAGCGCA

AGCGGACCGACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205340 representing NM_005097
 Red=Cloning site Green=Tags(s)

MESERSKRMGNACIPLKRIAYFLCLLSALLLTEGKPAKPKCPAVCTCTKDNALCENARSIPRTVPPDVI
 SLSFVRSGFTEISEGSFLFTPSLQLLLFTSNSFDVISDDAFIGLPHLEYLFIENNNIKSISRHTFRGLKS
 LIHLSLANNLQTLPKDIFKGLDSL TNVDLRGNSFNCDCKLKWLVWLGHTNATVEDIYCEGPPEYKRRK
 INLSLSSKDFDCIITEFAKSQDLPYQSLSIDTFSYLNDEYVIVIAQPFTGKCIFLEWDHVEKTRFNYDNITG
 TSTVVCKPIVIETQLYVIVAQLFGGSHIYKRDSFANKFIKIQDIEILKIRKPNDIETFKIENNWYFVVD
 SSKAGFTTIYKWNNGFYSHQSLHAWYRDTDVEYLEIVRTPQTLRTPHLILSSSSQRPVIYQWNKATQLF
 TNQTDIPNMEDEVYAVKHF SVKGDVYICL TRFIGDSKVMKWGSSSFQDIQRMP SRGSMVFQPLQINNYQYA
 ILGSDYSFTQVYNWDAEKAKFKVQELNVQAPRSFTHVSINKRNFLFASSFKGNTQIYKHVIVDL SA

SGPTRRRLE – GFP Tag – V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_005097

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:**
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_005097.3](#)
RefSeq Size: 2254 bp

RefSeq ORF: 1674 bp

Locus ID: 9211

UniProt ID: [O95970](#)

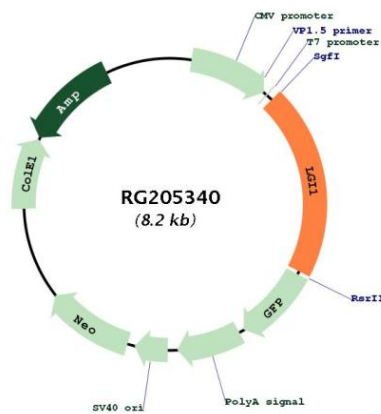
Cytogenetics: 10q23.33

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]

Product images:



Circular map for RG205340