

Product datasheet for **RC219293**

LGI4 (NM_139284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGI4 (NM_139284) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LGI4
Synonyms:	AMC1; AMCNMY; LGIL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC219293 representing NM_139284
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGGGGAGGCATTCTGCTGCTGCTGCTGGCTGGGGCGGGGTGGTGGCTGGAGACCCCAA
 AGGAAAAGTGTCCCTGCGCTGCTCTGCTCTAAAGACAGCGCCCTGTGTGAGGGCTCCCGGACCTGCC
 CGTCAGCTTCTCTCCGACCTGCTGTCACTCTCACTCGTCAGGACGGGAGTCACCCAGCTGAAGGCCGGC
 AGCTTCTGAGAATTCCGTCTCTGCACCTGCTCTCTTCACTCCAACCTCTTCTCCGTGATTGAGGACG
 ATGCATTTGCGGGCTGTCCACCTGCAGTACCTTTCATCGAGGACAATGAGATTGGCTCCATCTCTAA
 GAATGCCCTCAGAGGACTTCGCTCGCTTACACACCTAAGCCTGGCAATAACCATCTGGAGACCTCCCC
 AGATTCCTGTTCCGAGGCTGGACACCTTACTCATGTGGACCTCCGCGGAACCCGTTCCAGTGTGACT
 GCCGCGTCTCTGGCTCTGCAGTGGATGCCACCGTGAATGCCAGCTGGGACCGGCGCTGTGCGGG
 CCCCCTCTCTGAGCCACATGCAGCTCCACACCTCGACCCCAAGACTTCAAGTGCAGAGCCATAGAG
 CTGTCCTGGTTCCAGACGGTGGGGGAGTCGGCACTGAGCGTAGAGCCCTTCTCTACCAAGGGGAGCCTC
 ACATTGTGCTGGCACAGCCCTTCGCCGGCCGCTGCCTGATTCTCTCTGGGACTACAGCCTGCAGCGCTT
 CCGGCCGAGGAAGAGCTGCCCGCGGCCTCCGTGGTGTCTGCAAGCCACTGGTGTGGGCCGAGCCTC
 TTCGTGCTGGCTGCCCGCTGTGGGGGGCTCACAGCTGTGGGCCGGCCAGTCCCGGCTGCGCTGG
 CCCCACGCAGACCTGGCCCCGCGGGCTGCTGCGGCCAATGACGCCGAGCTCTGTGGCTGGAAGG
 GCAACCTGCTTCGTGGTGGCCGATGCCTCAAGCGGGCAGCACACGCTGTGTGCCGCGACGGGGCC
 GGCTTTTACCCGACAGAGCTGCACGCTGGCACCGGGACACGACGCTGAGGCCCTGGAGCTGGACG
 GCCGGCCCCACCTGCTGCTGGCTCGGCTTCCAGCGGCCGCTGCTTCCACTGGACCGGTGGCCGCTT
 CGAGAGACGCACAGACATCCCCGAGGCCGAGGATGTCTATGCCACACGCCACTTCCAGGCTGGTGGGAC
 GTGTTCTGTGCCTCACACGCTACATTGGGACTCCATGGTTCATGCGCTGGGACGGCTCCATGTTTCGTC
 TGCTGCAGCAACTCCCTCGCGCGGTGCCACGCTTCCAGCCACTGCTCATCGCCAGGACAGCTGGC
 CATCTAGGCAGCGACTTCGCTTCAGCCAGGTCTCCGCTTGAAGCTGACAAGGGCTCTGGAGCCA
 CTGCAGGAGTGGGGCTCCGGCCCTGGTGGCCCCCGTGCCTTTGCCACATCACTATGCCGCGCAGAC
 GCTTCTCTTTGCTGCTGCTTTAAGGGCCCCACAGATCTACCAGCATCACGATCGACCTCAGTGC
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219293 representing NM_139284
 Red=Cloning site Green=Tags(s)

MGGAGILLLLLAGAGVVVAVRPPKGCPLRCSKDSALCEGSPDLPVSFSPTLLSLSLVRTGVTQLKAG
 SFLRIPSLHLLLFSTNSFSVIEDDAFAGLSHLQYLFIEDNEIGSISKNALRGLRSLTHLSLANNHLETLP
 RFLFRGLDTLTHVDLRGNPFQCDRCVLWLLQWMPTVNASVGTGACAGPASLSHMLHLLDPKTFKCRAIE
 LSWFQTVGESALSVEPFSYQGEPIVLAQPFAGRCLILSWDYSLQRFPEEELPAASVVSCKPLVLGPSL
 FVLAARLWGSQWLWARPSPGLRLAPTQTLAPRRLLRPNDALLWLEGQPCFVVADASKAGSTLLCRDGP
 GFYPHQLSHAWHRDTEALELDGRPHLLLASASQRPVLFHWTGGRFERRTDIPEAEDVYATRHFAQGGD
 VFLCLTRYIGDSMVMRWGSMFRLLQQLPSRGAHVFPPLLIARDQLAILGSDFAFSQVLRLEPDKGLLEP
 LQELGPPALVAPRAFAHITMAGRRFLFAACFKGPTQIYQHHEIDLSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8022_a07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_139284

ORF Size: 1611 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_139284.3](#)

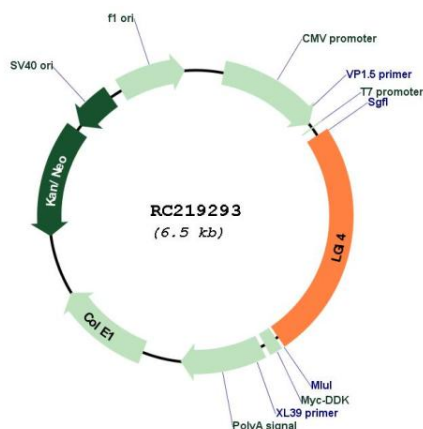
RefSeq Size: 2814 bp

RefSeq ORF: 1614 bp

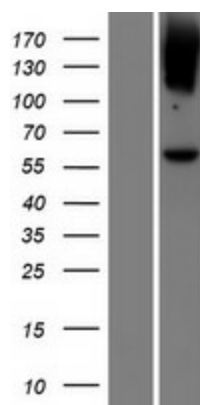
Locus ID: 163175

UniProt ID:	<u>Q8N135</u>
Cytogenetics:	19q13.11
Domains:	LRRCT, LRR, LRR_TYP, EPTP
MW:	59 kDa
Gene Summary:	Component of Schwann cell signaling pathway(s) that controls axon segregation and myelin formation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219293



Western blot validation of overexpression lysate (Cat# [LY408340]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).