

Product datasheet for **SC309386**

LRRC33 (NRROS) (NM_198565) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC33 (NRROS) (NM_198565) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRRC33
Synonyms:	ELLP3030; GARPL1; LRRC33; SENEAC; UNQ3030
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_198565 edited
 GGTAGCCAGCCCGCGTTCGGCTGCTCTCGAGGAGCCGGAGCCCCGGAGACGATGCG
 CCCCGCGCAGCCGCTGCGCCTGCGGGAGCCGGCTGCCCTTGAGATGGAGTTGCTGCCTC
 TTTGGCTCTGCCTGGGTTTTCACTTCTGACCGTGGGCTGGAGGAACAGAAGCGGAACAG
 CCACAGCAGCCTCCAAGGAGTCTGCAAGTTGGTGGTGGAGCCGCTGACTGCCGAGGGC
 AGAGCCTCGCTTCGGTGCCAGCAGCCTCCCGCCACGCCGGATGCTCACCTGGATG
 CCAACCCCTCAAGACCCTGTGGAATCACTCCCTCCAGCCTTACCCTCTCCTGGAGAGCC
 TCAGCCTGCACAGCTGCCACCTGGAGCGCATCAGCCGCGGCGCCTTCCAGGAGCAAGGTC
 ACCTGCGCAGCCTGGTACTGGGGACAACCTGCCTCTCAGAGAACTACGAAGAGACGGCAG
 CCGCCCTCCACGCCCTGCCGGGCTGCGGAGGCTGGACTTGTGAGGAAACGCCCTGACGG
 AGGACATGGCAGCGCTCATGCTCCAGAACCTCTCCTCGTGCCTGCGGTCCGTGTCCCTGGCG
 GGAACACCATCATGCGGCTGGACGACTCCGTCTTCGAGGGCTGGAGCGTCTCCGGGAGC
 TGGATCTGCAGAGGAACTACATCTTCGAGATCGAGGGCGCGCTTTCGACGGCCTGGCTG
 AGCTGAGGCACCTCAACCTGGCCTTCAACAACCTCCCCTGCATCGTGGACTTCGGGCTCA
 CGCGGCTGCGGGTCTCAACGTAGCTACAACGTCTGGAGTGGTTCTCGCGACCGGGG
 GAGAGGCTGCCTTCGAGCTGGAGACGCTGGACCTGTCTACAACCAGCTGCTGTTCTTCC
 CGCTGCTGCCCAAGTACAGCAAGTTGCGGACCCTCCTGCTGCGGACAACAACATGGGCT
 TCTACCGGACCTGTACAACACCTCGTCGCGGAGGGAGATGGTGGCCAGTTCCTCCTCG
 TGGACGGCAACGTGACCAACATCACCACCGTCAGCCTCTGGGAAGAAATTCCTCCAGCG
 ACCTCGCAGATCTCCGCTTCTGGACATGAGCCAGAACCAGTTCAGTACCTGCCAGACG
 GCTTCTGAGGAAAATGCCTTCCCTCTCCACCTGAACCTCCACCAGAATTGCCTGATGA
 CGCTTTCACATTCGGGAGCAGAGCCCCCGGAGCGCTACCGAGCTGGACCTGAGCCACA
 ACCAGCTGTGCGAGCTGCACCTGGCTCGGGGCTGGCCAGCTGCCTGGGACGCTGCGCT
 TGTTC AACCTGAGCTCCAACCAGCTCCTGGGCGTCCCCCTGGCCTTTCGCAATGCTA
 GGAACATCACTACACTTGACATGAGCCACAATCAGATCTCACTTTGTCCCCTGCCAGCTG
 CCTCGGACCGGGTGGGCCCCCTAGCTGTGTGGATTTAGGAATATGGCATCTTTAAGGA
 GCCTGTCTCTGGAGGGCTGTGGCCTGGGGGATTGCCAGACTGCCATTCCAAGGACCT
 CCCTGACCTACTTAGACCTCTCAAGCAACTGGGGGTTCTGAATGGGAGCCTCGCCCCAC
 TCCAGGATGTTGCCCCATGTTACAGGTCCTGTCTCAGGAACATGGGCTCCACTCCA
 GCTTTATGGCGTTGGACTTCTCTGGGTTTGGGAATCTCAGGACTTAGATCTGTGGGGA
 ATTGCTTGACCACCTTCCAAGGTTTGGGGGAGCCTGGCCCTGGAGACCCTGGATCTCC
 GTAGAACTCGCTCACAGCCCTTCCCCAGAAGGCTGTGTCTGAGCAGCTCTCGAGAGGTC
 TGGCGACCATCTACCTCAGTCAGAATCCATATGACTGCTGTGGGGTGGATGGCTGGGGG
 CCCTGCAGCATGGGACAGCGGTGGCCGACTGGGCCATGGTCACTGCAACCTCTCCTCCA
 AGATCATCCGCGTGACGGAGCTGCCCGGAGGTGTGCTCGGGACTGCAAGTGGGAGCGGC
 TGGACCTGGGCTGTCTACCTCGTGTCTATCCTCCAGCTGCCTCACCTGCTGGTGG
 CCTGCACTGTCTCGTCTCACTTTTAAGAAGCCTCTGCTTCAAGTCAAGAGCCGCT
 GCCACTGGTCTCCGTTTACTGACCTGGCTGTGTGCCAAGACTCGAAATTCGGTCCGCAC
 ACAACAGGACACTTTCTCTGCCAGCTTTCAAGATGTGATGCAGAGGCCAAGTCTGACGAA
 TTGAAGTTTCAATTAATAATTAATATGTTTCCATTCTCATCGCCACCCACCCCGCC
 CCCACCACCGCCAAGTTCTTTTCCATCATTATAATTATCCTTATTATCTTGGTAAAA
 TATTTATTAAGTGACTTTTTTCAAAAATAAAAGGCAACGTGTCTCATAAATATTTTTTAA
 TTAATAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_198565
Insert Size: 2500 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_198565.1.
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:	<u>NM_198565.1, NP_940967.1</u>
RefSeq Size:	2488 bp
RefSeq ORF:	2079 bp
Locus ID:	375387
UniProt ID:	<u>Q86YC3</u>
Cytogenetics:	3q29
Protein Families:	Transmembrane
Gene Summary:	Key regulator of transforming growth factor beta-1 (TGFB1) specifically required for microglia function in the nervous system (By similarity). Required for activation of latent TGF-beta-1 in macrophages and microglia: associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGFB1, and regulates integrin-dependent activation of TGF-beta-1 (By similarity). TGF-beta-1 activation mediated by LRR33/NRROS is highly localized: there is little spreading of TGF-beta-1 activated from one microglial cell to neighboring microglia, suggesting the existence of localized and selective activation of TGF-beta-1 by LRR33/NRROS (By similarity). Indirectly plays a role in Toll-like receptor (TLR) signaling: ability to inhibit TLR-mediated NF-kappa-B activation and cytokine production is probably a consequence of its role in TGF-beta-1 signaling (PubMed:23545260). [UniProtKB/Swiss-Prot Function]