

Product datasheet for **RC231138**

LRRC38 (NM_001010847) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	LRRC38
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC231138 representing NM_001010847
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGCGCCCCGAGCCCCAGCCTGCGCCGCCGCGCGCTCGGGCTCTGCAGCCTTCTGCTGCTCGCGC
CCGGGCACGCGTGCCCCGCGGCTGCGCCTGCACCGACCCGCACACCGTGGACTGCCGCGACCGCGGGCT
GCCCAGCGTGCCAGACCTTTCCCCCTGGACGTGCGCAAGCTGCTGGTGGCCGCAACCGCATCCAGCGG
ATCCCCGAGGACTTCTTCATCTTCTACGGCGACCTGGTCTACCTGGACTTCAGGAACAACCTCGTGCCT
CGCTGGAGGAGGGCAGTTTCAAGCGCTCGGCCAAGCTCGTGTCTCGACCTCAGCTACAACAACCTTGAC
CCAGCTGGGCGCCGCGCCTTCCGCTCGGCCGGGAGGCTGGTGAAGCTTAGCCTGGCTAACAAACCTG
GTGGGCGTGACGAGGACGCCTTCGAGACCTGGAGTCGCTGCAGGTGCTGGAGCTCAACGACAACAACC
TGCGCAGCCTCAGCGTGCCGCCCTGGCCGCGCTGCCCGCGCTGCGCTCCCTGCGTCTGGACGGGAACCC
CTGGCTGTGCGACTGTGACTTCGCCACCTTCTCTCTGGATCCAGGAGAACGCATCCAACTGCCAAA
GGCCTTGATGAAATCCAGTGCTCCCTGCCCATGGAGAGCAGGAGGATATCCCTGCGTGAGCTGTGCGAGG
CCAGCTTCAGCGAGTGAGTTTCAAGCTGTCACTCACAGACCTCTGCATCATATTTCTCCGGTGTGGC
CGTGTCCATTGCGGCCATCATCTCCAGCTTCTTCTGGCCACTGTGGTGCAGTGCCTCCAGAGGTGCGCA
CCCAACAAAGATGCGGAGGATGAAGACGAGGACAAGGATGAC

AG**CGGACCG**ACGCGTACGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC231138 representing NM_001010847
 Red=Cloning site Green=Tags(s)

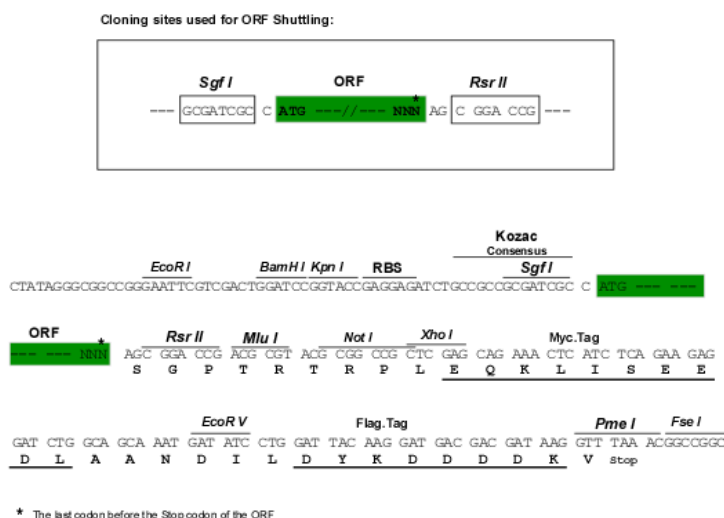
MRPRAPACAAALGLCSLLLLAPGHACPGACACTDPHTVDCDRGLPSVPDPFLDVRKLLVAGNRIQR
IPEDFFIFYGDLVYDLFRNNSLRSLLEEGTSGSAKLVFLDLYNNLTQLGAGAFRSAGRLVKLSLANNNL
VGVHEDAFETLESLQVLELNDNNLRSLSVAALAAPALRSRLRDGNPWLCDCDFAHLFSWITQENASKLPK
GLDEIQCSLPMESRRISLRELSEASFSECRFSLSLTDLCTIIFSGVAVSIAAIISSFFLATVTVQCLQRCA
PNKDAQEDDEMRDD

SGPTRRRL EOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1268_d12.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001010847

ORF Size: 882 bp

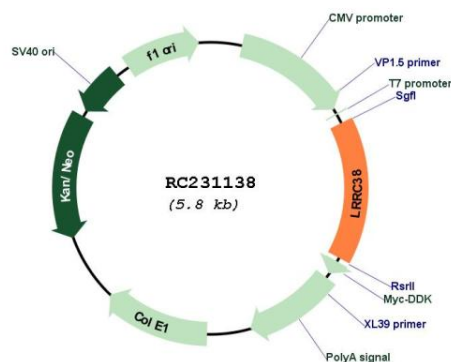
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

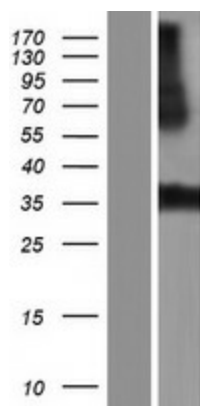
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001010847.2</u>
RefSeq ORF:	885 bp
Locus ID:	126755
UniProt ID:	<u>Q5VT99</u>
Cytogenetics:	1p36.21
Protein Families:	Transmembrane
MW:	32.5 kDa
Gene Summary:	Auxiliary protein of the large-conductance, voltage and calcium-activated potassium channel (BK alpha). Modulates gating properties by producing a marked shift in the BK channel's voltage dependence of activation in the hyperpolarizing direction, and in the absence of calcium.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC231138



Western blot validation of overexpression lysate (Cat# [LY434137]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231138 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).