# LRRC38 siRNA – Leucine-Rich Repeat-Containing Protein 38 (Human)

## PRODUCT OVERVIEW

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| **Product Name** | LRRC38, siRNA |
| **Full Product Name** | LRRC38 siRNA (Human) |
| **Product Gene Name** | LRRC38 sirna |
| **Product Synonym Names** | Leucine-rich repeat-containing protein 38; BK channel auxiliary gamma subunit LRRC38 |
| **Host** | Synthetic |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | LRRC38 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression. |
| **Preparation and Storage** | Shipped at 4 degree C. Store at -20 degree C for one year. |
| **Molecular Weight** | 32,082 Da |
| **OMIM** | 615212 |
| **3D Structure** | ModBase 3D Structure for Q5VT99 |
| **Negative Control** | siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection. |
| **Quality Control** | Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency. |
| **Directions for Use** | We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well). |
| **Components** | We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human LRRC38 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo. |
| **Applications Tested/Suitable for LRRC38 sirna** | RNA Interference (RNAi) |
| **Related Product Information for LRRC38 sirna** | MBS8230279 is an siRNA targeting LRRC38. Also known as LRRC38 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit LRRC38 expression using RNA interference |
| **Other Notes** | Small volumes of LRRC38 sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LRRC38. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 299782601 |
| **NCBI GeneID** | 126755 |
| **NCBI Accession #** | NP_001010847.1 |
| **UniProt Primary Accession #** | Q5VT99 |
| **UniProt Secondary Accession #** | Q96B32 |
| **UniProt Related Accession #** | Q5VT99 |
| **GenBank Nucleotide #** | NM_001010847.1 |
| **NCBI Official Full Name** | leucine-rich repeat-containing protein 38 |
| **NCBI Official Synonym Full Names** | leucine rich repeat containing 38 |
| **NCBI Official Symbol** | LRRC38 |
| **UniProt Protein Name** | Leucine-rich repeat-containing protein 38 |
| **UniProt Synonym Protein Names** | BK channel auxiliary gamma subunit LRRC38 |
| **Protein Family** | Leucine-rich repeat-containing protein |
| **UniProt Gene Name** | LRRC38 |
| **UniProt Entry Name** | LRC38_HUMAN |
| **NCBI Protein Information** | leucine-rich repeat-containing protein 38 |
| **UniProt Comments for LRRC38** | LRRC38: 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.<br><br>Protein type: Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 1p36.21<br><br>Cellular Component: integral to membrane; plasma membrane<br><br>Biological Process: ion transport |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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