

Product datasheet for MR217625

Lrrc38 (NM_001162983) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc38 (NM_001162983) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrc38
Synonyms:	A230053A07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217625 representing NM_001162983 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCCC

ATGAGTCTCTGCGTTGCCCCCGCCACCCACGGGCGCTGCTGCGGCGCTGGGGCTCGGTAGCCTCTTGG
 TGCTGCTCGGGCCGGGACGCGCTGCCCCGCGGGCTGTGCTTGACCGACCCCATACCGTGGACTGTG
 CGATCGCGGGCTGCCAGCGTGCCCGATCCCTTCCCCCTGGACGTGCGCAAGCTGCTAGTGGCCGGCAAC
 CGCATCCAGCAGATCCCCGAGGACTTCTTCATCTTCCATGGAGATCTGGTGTATCTGGATTCAGGAACA
 ACTCGCTGCGCTCGCTGGAGGAGGGCACGTTACGCGGCTCGGGCAAGCTGGCCTTCTGGACCTGAGCTA
 CAACAACCTCACCCAGCTGGGGGCGGCGCCTTCCGCTCGCGGGGAGGCTGGTCAAGCTGAGCCTGGCC
 AACCAACCTCTGGCCGGTGTACATGAGGCTGCCTTCGAGAGCCTGGAGTCCTTGCAGGTGCTGGAACCTCA
 ACGACAACAACCTGCGCAGCCTCAACGTGGCGGCTTTGGATGCGCTGCCGGCACTGCGCACTGTGCGCCT
 GGACGGGAACCCCTGGCTGTGTGACTGTGACTTCGCTACCTCTTCTCCTGGATTCAGGAGAACACATCC
 AAATTGCCCAAAGGCCTCGATGCCATCCAGTGTTCACTGCCCATGGAGGACCGGAGGGTGGCCCTGAGGG
 AGCTATCCGAAGCTAGTTTCAGCGAGTGTAAGTTCAGCCTGTCTCTCACAGACCTATTCATCATCATCTT
 CTCTGGGGTGGCTGTGTCCATTGCTGCCATCATCTCCAGCTTCTCTCTGGCCACTGTGGTGCAGTGTTTC
 CAGAGGTGCGCCCTAACAAAGGACACGGAAGATGAGGATGATGATGAAGATGAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR217625 representing NM_001162983
 Red=Cloning site Green=Tags(s)

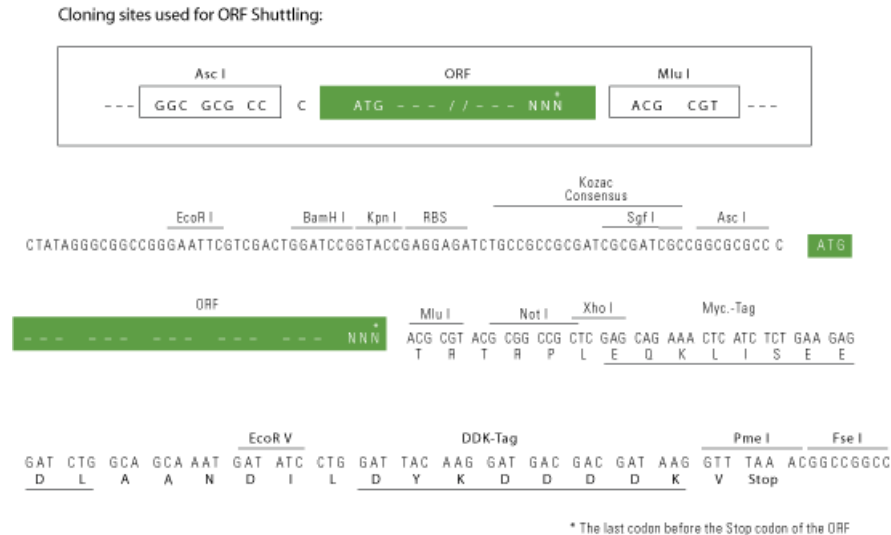
MSLCVAPRHPTGAAAALGLGSLLVLLGPGRACPAGCACTDPHTVDCRDRGLPSVPDPFPLDVRKLLVAGN
 RIQQIPEDFFIFHGDLVYLDNRNLSRLEEFTSGSGKLAFLDLSYNNLTQLGAGAFRSAGRLVKLSLA
 NNHLAGVHEAAFESLESQVLELNDNNLRSLNVAALDALPALRTVRLDGNPWLCDCAFHLFSWIQENTS
 KLPKGLDAIQCSLPMEDRRVALRELSEASFSECKFSLSLTDLFIIFSGVAVSIAAISSFFLATVVQCF
 QRCAPNKDTEDEDDDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9092_g05.zip

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_001162983

ORF Size: 894 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_001162983.1](#), [NP_001156455.1](#)

RefSeq Size: 2327 bp

RefSeq ORF: 897 bp

Locus ID: 242735

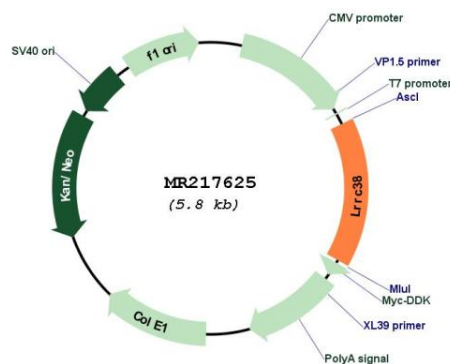
UniProt ID: [A2VDH3](#)

Cytogenetics: 4 E1

MW: 32.3 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217625