

Product datasheet for **MR210777**

Lrrc8a (BC048152) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc8a (BC048152) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrc8a
Synonyms:	mKIAA1437, MGC61242
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210777 representing BC048152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTCCGGTGACAGAGCTCCGCTACTTTGCGGACACACAGCCAGCATACCGGATCCTGAAGCCTTGTT
 GGGATGTGTTCACTGATTACATCTCCATCGTCATGCTGATTGCTGTCTTTGGAGGGACGCTGCAAGT
 CACCCAGGACAAGATGATCTGCCTACCTTGTAAAGTGGGTACCAAAGACTCCTGCAACGACTCCTCCGG
 GGCTGGGACGCTCCAGCCAGAGCCACTTACCCAACTCCACAGTCTGCGGACGCTGACACAGGCC
 CCACAGGTATCAAGTATGACCTAGACACCAGTACAACACTACGTGGATGCGGTGTGCTACGAGAACCG
 CCTGCATTGGTTTCCAAGTACTTCCCCTACCTCGTGCTTCTGCACACCCTCATCTTCTGGCCTGTAGC
 AACTTCTGGTTCAAGTTCCACGCACAGTTCGAAGCTGGAACACTTTGTGTCTATCCTGCTCAAGTGCT
 TCGACTCACCGTGGACCACAGGCCCTGTCGGAGACAGTGGTGGAGGAGAGTGACCCCAAGCCAGCCTT
 CAGCAAGATGAACGGTCCATGGACAAGAAGTCATCTACAGTCAGCGAGGATGTGGAGGCCACCGTGCC
 ATGCTGCAGCGGACCAAGTCACGGATTGAGCAGGGCATCGTGGACCGATCGGAGACGGGCGTACTGGACA
 AGAAGGAAGGGGAGCAGGCGAAGGCCCTGTTTGAAGGTTGAAGAAGTCCGGACTCACGTGGAGGAGGG
 GGACATTTGTGTACCGCTGTACATGCGGCAGACCATCATCAAGGTGATCAAGTTCGCCCTCATCATCTGC
 TACACCGTCTACTATGTGCACAACATCAAGTTCGACGTGGACTGCACCGTGGACATCGAGAGCCTGACAG
 GCTACCGCACCTACCGCTGTGCCACCCCTGGCCACGCTCTTCAAGATCTTGGCATCCTTCTACATCAG
 CTTGGTCATCTTCTATGGCCTCATCTGCATGTACACACTGTGGTGGATGCTGCGGCGCTCCCTCAAGAAG
 TACTCGTTCGAGTCGATCCGAGAGGAGAGCAGCTACAGTGACATCCCGACGTCGAAGAAGCACTTTGCC
 TCATGTTGCACCTCATCGACCATGATGACCTCTCTACTCAAAGCGCTTCCGCCCTTCTGTCTGAGGT
 GAGTGAAAACAAGCTGCGCCAGCTGAACCTCAACAACGAGTGGACGCTGGACAAGCTGCGCCAGCGCCTC
 ACCAAGAACGCCAGGACAAGCTGGAGCTGCACCTGTTTATGCTCAGCGGCATCCCGGACTGTGTTTGA
 ACCTGGTTGAGCTCGAGGCTCCTGAAGCTGGAGCTGATACCGACGTGACCATCCCGCCAGCATCGCCCA
 GCTCACAGGCTCAAGGAGCTGTGGCTGTACCACAGGCAGCCAAAGATCGAGGCTCCTGCCCTGGCCTTC
 CTGCGGGAGAACCTGCGGGCCCTGCACATCAAGTTCACGGACATCAAGGAGATCCCGCTGTGGATCTACA
 GCCTGAAGACGCTGGAGGAGCTGCACCTGACGGGCAACCTGAGTGCAGAGAACAACCGCTACATCGTCAT
 TGACGGGCTGCGGAGCTCAAACGCCTCAAGGTGCTGCGACTCAAGAGCAACCTGAGCAAGCTGCCGCAG
 GTGGTCACGGATGTGGGCTGCACCTGCAGAAGCTGTCCATCAACAATGAGGGCACAAGCTCATTGTCC
 TCAACAGCCTCAAGAAGATGGTTAACCTGACGGAGCTAGAGCTGATCCGCTGTGACTGGAGCGCATCCC
 TCACTCCATCTTTAGCCTCCACAACCTGCAGGAGATTGACCTGAAGGACAACAACCTCAAGACCATTGAG
 GAGATCATCAGCTTCCAGCACCTGCACCGCCTCACCTGCCTTAAGCTGTGGTACAACCACATTGCCTACA
 TCCCCATCCAGATCGGCAACCTCACAACCTCGAGCGCCTCTACCTGAACCGCAACAAAATCGAGAAAAT
 CCCCAACAGCTCTTCTACTGCGCAAGCTGCGCTACCTGGACCTCAGCCACAACAACCTGACCTTCCTC
 CCCGCCGACATTTGGCTCCTGCAGAACCTCCAGAACCTGGCCGTCACAGCCAATAGGATTGAAGCGCTCC
 CCCAGAGCTCTTCCAGTGTGGAAGCTACGGGCTCTACACCTGGGCAACAATGTACTGCAGTCGCTGCC
 CTCGAGAGTGGGCGAGCTGACCAACCTGACGCAGATCGAGCTTGGGGCAACCGGCTGGAATGCCTGCC
 GTGGAGCTGGGAGAGTGCCCTACTCAAGCGCAGCGCCCTGGTGGTGAAGAGGACTTGTTCAGCACAC
 TGCCACCTGAGGTGAAGGAGCGGCTCTGGAGAGCTGACAAGGAGCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210777 representing BC048152
Red=Cloning site Green=Tags(s)

MIPVTELRYFADTQPAYRILKPWWVFTDYISIVMLMIAVFGGTLQVTQDKMICLPCKWVTKDSCNDSFR
GWAASSPEPTYPNSTVLPDTPGTGPTGIKYDLDRHQYNYVDAVCYENRLHWFACYFPYLVLHLLHTLIFLACS
NFWFKFPRTSSKLEHFVSILLKCFDSPWTRALSETVVEESDPKPAFSKMNGSMDKKSSTVSEDVEATVP
MLQRTKSRIEQIVDRSETGVLDKKEGEQAKALFEKVKKFRTHVEEGDIVYRLYMRQTIKVIKIFALIIC
YTVYYVHNKFDVDCTVDIESLTGYRTRYCAHPLATLFKILASFYISLVIFYGLICMYTLWMLRRLSLKK
YSFESIREESSYSDIPDVKNDFAFMLHLIDQYDPLYSKRFAVFLSEVSENKLRQLNLNNEWTLDKLRQRL
TKNAQDKLELHFLMMSGIPDVFDFLVELEVLELIPDVTIPPSIAQLTGLKELWLYHTAAKIEAPALAF
LRENLRALHIKFTDIKEIPLWIYSLKTLLELHLTGNSAENNRIVIDGLRELKRLKVLRLKSNLSKLPQ
VVTDVGVHLQKLSINNEGTKLIVLNSLKKMVNLTELELIRCDLERIPHSIFSLHNLQEIDLKDNLLKTIE
EIIISFQHLHRLTCLKLWYNHAIYIPIQIGNLTNLERLYLNRNKIEKIPTQLFYCRKLRYLDSLHNNLTFL
PADIGLLQNLQNLAVTANRIEALPPELFQCRKLRALHLGNNVLQSLPSRVGELTNLTQIELRGNRLECLP
VELGECPLLKRSGLVVEEDLFSTLPPEVKERLWRADKEQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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.

RefSeq: [BC048152](#)

RefSeq Size: 4344 bp

RefSeq ORF: 2432 bp

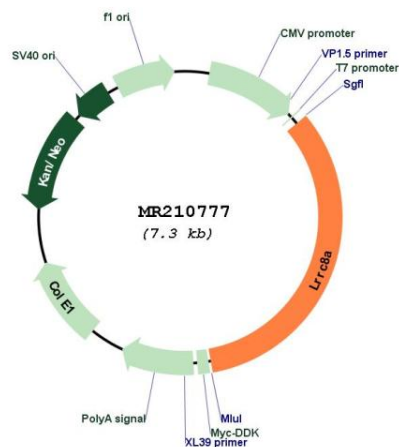
Locus ID: 241296

Cytogenetics: 2 B

MW: 159.3 kDa

Gene Summary: Essential component of the volume-regulated anion channel (VRAC, also named VSOAC channel), an anion channel required to maintain a constant cell volume in response to extracellular or intracellular osmotic changes (PubMed:29769723). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine (By similarity). Mediates efflux of amino acids, such as aspartate and glutamate, in response to osmotic stress (By similarity). Required for channel activity, together with at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition. Can form functional channels by itself (in vitro) (By similarity). Involved in B-cell development: required for the pro-B cell to pre-B cell transition (PubMed:14660746, PubMed:24752297). Also required for T-cell development (PubMed:24752297).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210777