

Product datasheet for **MC220924**

Lrrc8a (BC048152) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >BC048152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTCCGGTGACAGAGCTCCGCTACTTTGCGGACACACAGCCAGCATACCGGATCCTGAAGCCTTGTT
 GGGATGTGTTCACTGATTACATCTCCATCGTCATGCTGATTGCTGTCTTTGGAGGGACGCTGCAAGT
 CACCCAGGACAAGATGATCTGCCTACCTTGTAAAGTGGGTACCAAAGACTCCTGCAACGACTCCTCCGG
 GGCTGGGACGCTCCAGCCAGAGCCACTTACCCAACTCCACAGTCTGCCGACGCTGACACAGGCC
 CCACAGGTATCAAGTATGACCTAGATCGACACCAGTACAACACTACGTGGATGCGGTGTGCTACGAGAACCG
 CCTGCATTGGTTTCCAAGTACTTCCCCTACCTCGTGCTTCTGCACACCCTCATCTTCTGGCCTGTAGC
 AACTTCTGGTTCAAGTTCCACGCACAGTTCGAAGCTGGAACACTTTGTGTCTATCCTGCTCAAGTGTCT
 TCGACTCACCGTGGACCACAGGCCCTGTCGGAGACAGTGGTGGAGGAGAGTGACCCCAAGCCAGCCTT
 CAGCAAGATGAACGGTCCATGGACAAGAAGTCTCTACAGTACGCGAGGATGTGGAGGCCACCGTGCCC
 ATGCTGCAGCGGACCAAGTACCGGATTGAGCAGGGCATCGTGGACCGATCGGAGACGGGCGTACTGGACA
 AGAAGGAAGGGGAGCAGGCGAAGGCCCTGTTTGAAGGTTGAAGAAGTCCGGACTCACGTGGAGGAGGG
 GGACATTTGTGTACCGCTGTACATGCGGCAGACCATCATCAAGGTGATCAAGTTCGCCCTCATCATCTGC
 TACACCGTCTACTATGTGCACAACATCAAGTTCGACGTGGACTGCACCGTGGACATCGAGAGCCTGACAG
 GCTACCGCACCTACCGCTGTGCCACCCCTGGCCACGCTCTTCAAGATCTTGGCATCCTTCTACATCAG
 CTTGGTCATCTTCTATGGCCTCATCTGCATGTACACACTGTGGTGGATGCTGCGGCGCTCCCTCAAGAAG
 TACTCGTTCGAGTCGATCCGAGAGGAGAGCAGCTACAGTGACATCCCGACGTCGAAGAAGCACTTTGCC
 TCATGTTGCACCTCATCGACCAAGTATGACCTCTCTACTCAAAGCGCTTCCGCCCTTCTGTCTGAGGT
 GAGTGAAAACAAGCTGCGCCAGCTGAACCTCAACAACGAGTGGACGCTGGACAAGCTGCGCCAGCGCCTC
 ACCAAGAACGCCAGGACAAGCTGGAGCTGCACCTGTTTATGCTCAGCGGCATCCCGGACTGTGTTTGA
 ACCTGGTTGAGCTCGAGGCTCCTGAAGCTGGAGCTGATACCGACGTGACCATCCCGCCAGCATCGCCCA
 GCTCACAGGCCTCAAGGAGCTGTGGCTGTACCACAGGCAGCCAAGATCGAGGCTCCTGCCCTGGCCTTC
 CTGCGGGAGAACCTGCGGGCCCTGCACATCAAGTTCACGGACATCAAGGAGATCCCGCTGTGGATCTACA
 GCCTGAAGACGCTGGAGGAGCTGCACCTGACGGGCAACCTGAGTGCAGAGAACAACCGCTACATCGTCAT
 TGACGGGCTGCGGGAGCTCAAACGCCTCAAGGTGCTGCGACTCAAGAGCAACCTGAGCAAGCTGCCGCAG
 GTGGTCACGGATGTGGGCTGCACCTGCAGAAGCTGTCCATCAACAATGAGGGCACCAAGCTCATTGTCC
 TCAACAGCTCAAGAAGATGGTTAACCTGACGGAGCTAGAGCTGATCCGCTGTGACTGGAGCGCATCCC
 TCACTCCATCTTTAGCCTCCACAACCTGCAGGAGATTGACCTGAAGGACAACAACCTCAAGACCATTGAG
 GAGATCATCAGCTTCCAGCACCTGCACCGCCTCACCTGCCTTAAGCTGTGGTACAACCACATTGCCTACA
 TCCCCATCCAGATCGGCAACCTCACAACCTCGAGCGCCTCTACCTGAACCGCAACAAAATCGAGAAAAT
 CCCCAACAGCTCTTCTACTGCGCAAGCTGCGCTACCTGGACCTCAGCCACAACAACCTGACCTTCCCT
 CCCGCCGACATTTGGCCTCCTGCAGAACCTCCAGAACCTGGCCGTCACAGCCAATAGGATTGAAGCGCTCC
 CCCAGAGCTCTTCCAGTGTGGAAGCTACGGGCTCTACACCTGGGCAACAATGTACTGCAGTCGCTGCC
 CTCGAGAGTGGGCGAGCTGACCAACCTGACGCAGATCGAGCTTGGGGCAACCGGCTGGAATGCCTGCCC
 GTGGAGCTGGGAGAGTGCCCCCTACTCAAAGCGCAGCGGCCCTGGTGGTGAAGAGGACTTGTTCAGCACAC
 TGCCACCTGAGGTGAAGGAGCGGCTCTGGAGAGCTGACAAGGAGCAGGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: BC048152
Insert Size: 3732 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).
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>BC048152</u>
RefSeq Size:	4344 bp
RefSeq ORF:	2432 bp
Locus ID:	241296
Cytogenetics:	2 B
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]