

Product datasheet for **MR210975**

Lrrc8d (NM_001122768) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc8d (NM_001122768) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrc8d
Synonyms:	2810473G09Rik; 4930525N13Rik; A930019F03; Lrrc5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210975 representing NM_001122768
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTACCCTTGCGGAAGTTGCTTCACTTAATGACATTCAGCCAACCTACCGAATCCTGAAGCCATGGT
GGGACGTGTTTATGGATTACCTGGCAGTCGTTATGCTGATGGTAGCCATCTTTGCAGGGACCATGCAACT
TACCAAAGATCAGGTGGTGTGTTTGCCAGTGTTCGCGTCGCCCTGCAAATTCAAAAGCGCACACACCAACC
GGAAATGCTGACATCACCAACGAAGTCCCAGGATGGAACAGCCACACCAAGACAAAACGGGCAGAG
CGACAACGAATGACGTTGCCCTTTGGCACATCCGCTGTGACCCCTGACATACCTCTCCAAGCCACCCATCC
TCATGCAGAGTCCACCCTTCCCAATCAGGAGGCGAAGAAGGAGAAGAGAGACCCAACGGGCCGAAAAACC
AACTTGGATTTTACGAGTACGATTTTATCAATCAGATGTGTACCATCTGGCCCTCCCTGGTACTCCA
AGTACTTTCCATACCTTGCCTTATACACACCATCATCCTTATGGTCAGTAGCAACTTTTGGTTCAATA
TCCAAAACGTGCTCCAAGTGTGAGCATTGTTTCAATATTAGGAAAGTGTTCGAATCTCCCTGGACA
ACTAAGGCGCTGTGAGAGACGGCCTGTGAAGACTCTGAGGAGAACAAGCAGCGGATAACGGGCGCCGAGA
CCCTGCCGAAGCATGTGTCCACCAGCAGCGATGAGGGGAGCCCCAGCGCCAGCACCCCATGATCAACAA
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GACGGGGAGCAGGCCAAAGCCCTGTTTGAAGAAAGTAAGGAAATCCGTGCCACAGTGAAGACAGTGACT
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TGCGAAGTTTGTCAACGCCATCAGCTTCGAGCAGTCTGCAAGCCAAAAGTCGAGCACCTCACGGGTAC
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CTGCACATGGTTCGACCAGTACGACCAGCTCTATTCCAAGCGTTTCGGTGTGTTCTTATCCGAAGTCAAGT
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CTAACCTCCAAGAGCTCCACCTCTGCCACTGCCCTGCAAAGGTGGAACAGACTGCCTTTAGCTTCTCCTCG
AGATCACTTGAGATGCCTTCACGTGAAGTTCACGGATGTGGCTGAAATCCCCGCCTGGGTGTATCTGCTT
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CGCTGCGAGAGCTGCGGCACCTTAAGATCCTCCACGTGAAGAGTAATCTAACAAAGTCCCTCTAACAT
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GCTGGGCCAGTGTGGATGCTCAAGAAGAGCGGGCTTGTGTAGAAGACCAACTGTTTGACACGCTGCCA
CTAGAAGTCAAAGAGGCATTGAATCAAGATGTCAATGTCCCTTTGCAAACGGGATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210975 representing NM_001122768
 Red=Cloning site Green=Tags(s)

MFTLAEVASLNDIQPTYRILKPWWDFVMDYLAVVMLMVAIFAGTMQLTKDQVVCLPVLSPANSKAHTPP
 GNADITTEVPRMETATHQDQNGQTTTNDVAFGTSAVTPDIPLQATHPHAESTLPNQEAKKEKRDPTGRKT
 NLDFQQYVFINQMCYHLALPWYSKYFPYLALIHITILMVSSNFWFYKPKTCSKVEHFVSILGKCFESPWT
 TKALSETACEDSEENKQRITGAQTLPKHVSTSSDEGSPSASTPMINKTGFKFSAEKPVIEVPSMTILDKK
 DGEQAKALFEKVRKFRAHVEDSDLIYKLYVVQTLIKTAKFIFILCYTANFVNAISFEHVCKPKVEHLTGY
 EVFECTHNMAYMLKLLISYISIIICVYGFICLYTLFWLFRIPLKEYSFEKVREESSFSDIPDVKNDF AFL
 LHMVDQYDQLYSKRFGVFLSEVSENKLEISLNHEWTFEKLQRHVSRNAQDKQELHLFMLS GVPDAVFDL
 TDLDVLKLELIPKAKIPAKISQMTNLQELHLCHCPAKVEQTAFSFLRDHLRCLHVKFTDVAEIPAWYLL
 KNLRELYLIGNLSENKMGLESRLRHLKILHVKSNTKVP SNITDVAPHLTKLVIHNDGTLLV LN
 SLKMMNVAEELQNC ELERIPHAIFSLSNLQELDLKSNNIRTIEEISFQHLKRLTCLKLWHNKIVAIP
 PSITHVKNLESLYFSNNKLESLPTAVFSLQKLRCLDVSNNISTIPIEIGLLQNLQHLHITGNKVDILPK
 QLFKCVKLRTLNLGQNCIASLPEKISQLTQLTQLELKGNC LDR LPAQLGQCRMLKKSGLVVEDQLFDTLP
 LEVKEALNQDVNVPFANGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

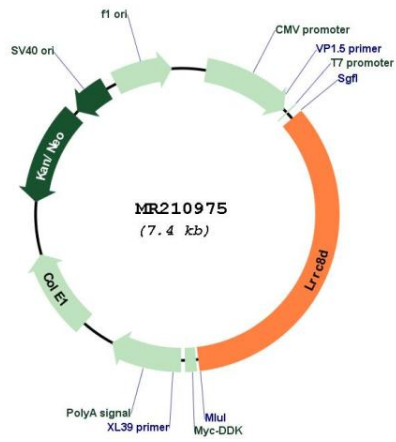
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001122768
ORF Size:	2577 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:	<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:	NM_001122768.1 , NP_001116240.1
RefSeq Size:	3944 bp
RefSeq ORF:	2580 bp
Locus ID:	231549
UniProt ID:	Q8BGR2
Cytogenetics:	5 E5
MW:	98.6 kDa
Gene Summary:	Non-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. The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine. Plays a redundant role in the efflux of amino acids, such as aspartate, in response to osmotic stress. Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210975