

## Product datasheet for **MR217464**

### Lrrc8d (NM\_178701) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc8d (NM_178701) 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:**

>MR217464 representing NM\_178701  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTACCCTTGCGGAAGTTGCTTCACTTAATGACATTCAGCCAACCTACCGAATCCTGAAGCCATGGT  
 GGGACGTGTTTATGGATTACCTGGCAGTCGTTATGCTGATGGTAGCCATCTTTGCAGGGACCATGCAACT  
 TACCAAAGATCAGGTGGTGTGTTTGCCAGTGTTCGCGTCGCTGCAAATTCAAAAGCGCACACACCAACC  
 GGAAATGCTGACATCACCAAGTCCCAGGATGGAACAGCCACACCAAGACAAAACGGGCAGAG  
 CGACAACGAATGACGTTGCCCTTTGGCACATCCGCTGTGACCCCTGACATACCTCTCCAAGCCACCCATCC  
 TCATGCAGAGTCCACCCTTCCCAATCAGGAGGCGAAGAAGGAGAAGAGAGACCCAACGGGCCGAAAAACC  
 AACTTGGATTTTACGAGTACGATTTTATCAATCAGATGTGTACCATCTGGCCCTCCCTGGTACTCCA  
 AGTACTTTCCATACCTTGCCTTATACACACCATCATCCTTATGGTCAGTAGCAACTTTTGGTTCAAATA  
 TCCAAAACGTGCTCCAAGTGTGAGCATTGTTTCAATATTAGGAAAGTGTTCGAATCTCCCTGGACA  
 ACTAAGGCGCTGTGAGAGACGGCCTGTGAAGACTCTGAGGAGAACAAGCAGCGGATAACGGGCGCCGAGA  
 CCCTGCCGAAGCATGTGTCCACCAGCAGCGATGAGGGGAGCCCCAGCGCCAGCACCCCATGATCAACAA  
 AACTGGCTTCAAGTTCTCGGCTGAGAAACCGGTGATCGAAGTTCCAGCATGACAATCCTGGACAAGAAA  
 GACGGGGAGCAGGCCAAAGCCCTGTTTGAAGAAAGTAAAGAAATCCGTGCCACGTGGAAGACAGTGACT  
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 TGCGAAGTTTGTCAACGCCATCAGCTTCGAGCAGCTGCAAGCCAAAAGTCGAGCACCTCACGGGGTAC  
 GAGGTGTTGAGTGCACCTACAATATGGCTACATGTTGAAAAGCTGCTCATCAGTACATCCATCA  
 TCTGCTCTACGGCTTTATCTGCCTCTACACTCTCTTCTGGCTATTGAGGATCCCTGAAGGACTACTC  
 GTTTGAGAAAGTCCGGGAGGAGAGCAGCTTCAGCGACATCCCGGATGTCAAGAACGACTTTGCGTTCCTT  
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 CGCTGCGAGAGCTGCGGCACCTAAGATCCTCCACGTGAAGAGTAATCTAACAAAGTCCCTCTAACAT  
 CACCGACGTGGTCCGCACCTCACGAAGCTCGTCATCCACAACGACGGGACCAAGCTCTTGGTCTGAAAC  
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 GCTGGGCCAGTGTGGATGCTCAAGAAGAGCGGGCTTGTGTAGAAGACCAACTGTTTGACACGCTGCCA  
 CTAGAAGTCAAAGAGGCATTGAATCAAGATGTCAATGTCCCTTTGCAAACGGGATT

**ACGGT**ACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217464 representing NM\_178701  
 Red=Cloning site Green=Tags(s)

MFTLAEVASLNDIQPTYRILKPWWDFVMDYLAVVMLMVAIFAGTMQLTKDQVVCLPVLPSANKAHTPP  
 GNADITTEVPRMETATHQDQNGQTTTNDVAFGTSAVTPDIPLQATHPHAESTLPNQEAKKEKRDPTGRKT  
 NLDFQQYVFINQMCYHLALPWYSKYFPYLALIHITILMVSSNFWFYKPKTCSKVEHFVSILGKCFESPWT  
 TKALSETACEDSEENKQRITGAQTLPKHVSTSSDEGSPSASTPMINKTGFKFSAEKPVIEVPSMTILDKK  
 DGEQAKALFEKVRKFRAHVEDSDLIYKLYVVQTLIKTAKFIFILCYTANFVNAISFEHVCKPKVEHLTGY  
 EVFECTHNMAYMLKLLISYISIIICVYGFICLYTLFWLFRIPLKEYSFEKVREESSFSDIPDVKNDF AFL  
 LHMVDQYDQLYSKRFGVFLSEVSENKLRREISLNHEWTFEKLQRHVSRNAQDKQELHLFMLS GVPDAVFDL  
 TDLDVLKLELIPKAKIPAKISQMTNLQELHLCHCPAKVEQTAFSFLRDHLRCLHVKFTDVAEIPAWYLL  
 KNLRELYLIGNLSENKMGLESRLRHLKILHVKSNTKVP SNITDVAPHLTKLVIHNDGTKLLV LN  
 SLKMMNVAEELQNC ELERIPHAIFSLSNLQELDLKSNNIRTIEEII SFQHLKRLTCLKLWHNKIVAIP  
 PSITHVKNLESLYFSNNKLESLPTAVFSLQKLRCLDVSNNISTIPIEIGLLQNLQHLHITGNKVDILPK  
 QLFKCVKLRTLNLGQNCIASLPEKISQLTQLTQLELKGNC LDRLPAQLGQCRMLKKSGLVVEDQLFDTLP  
 LEVKEALNQDVNVPFANGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

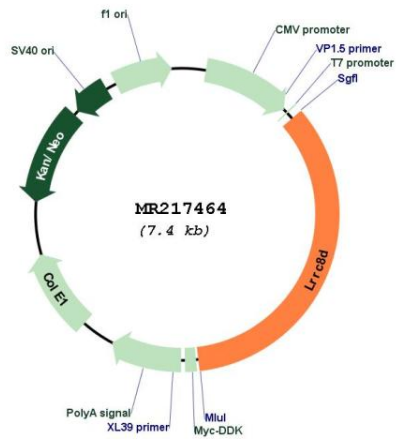
SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_178701
<b>ORF Size:</b>	2577 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_178701.3</a> , <a href="#">NP_848816.3</a>
<b>RefSeq Size:</b>	3920 bp
<b>RefSeq ORF:</b>	2580 bp
<b>Locus ID:</b>	231549
<b>UniProt ID:</b>	<a href="#">Q8BGR2</a>
<b>Cytogenetics:</b>	5 E5
<b>MW:</b>	98.6 kDa
<b>Gene Summary:</b>	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 MR217464