

## Product datasheet for **RN212831**

### **Lrrc8d (NM\_001008338) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Lrrc8d (NM_001008338) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lrrc8d
Synonyms:	Lrrc5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN212831 representing NM\_001008338  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAATGTTTACCCTTGCAGGTTGCTTCACTTAATGACATTCAGCCAACCTACCGAATCCTGAAGC  
 CATGGTGGGACGTGTTTATGGATTACCTGGCGTTGTTATGCTGATGGTAGCCATCTTGCAGGGACCAT  
 GCAACTTACCAAAGATCAGGTGGTCTGTTTCCAGTGTGCGCTCGCAAAATCAAAGGCGCACACA  
 CCACCCGGGAATGCTGACGTCACTACTGAAGTCCCAAGATGGAGACAGCCACACCCCAAGACAAAACG  
 GGCAGACGACGAATGACATTGCCTTTGGCAGTCTGCTGTGACGCCTGACATACCTCTCCAAGCCACCTA  
 TTCACACGCAGAGTCCACCTTCCAGTCCAGGAGACGAAGAAGGAGAAGAGACCCACGGGCCGAAA  
 ACCAACTTGGATTTTTCAGCAGTACGATTTTATCAATCAGATGTGCTACCATCTGGCCCTTCTTGGTATT  
 CCAAGTACTTTCCATACCTTGCCTTATACACACCATCATCCTTATGGTCAGTAGCAACTTTTGGTTCAA  
 ATATCCAAAACGTGCTCCAAGTTGAGCATTGTTTCAATATTAGGAAAGTGTTCGAATCTCCCTGG  
 ACTACTAAAGCGCTGTCCGAGACAGCCTGTGAGGACTCTGAGGAGAAACAGCAGCGGATAACGGGGCC  
 AGACCCTACCGAAGCACGTGTCCACCAGCAGCGATGAGGGGAGCCCAAGCCAGCCACCCCATGATCAA  
 CAAAACGGGCTTCAAGTTCTCAGCTGAAAAGCCGGTGTGCAAGTCCCAGCATGACGATCCTGGACAAG  
 AAGGACGGGGAGCAGGCCAAAGCCCTGTTTGAAGGTGAGGAAATTCGTGCCATGTGGAAGACAGTG  
 ACTTGATCTACAAGCTCTACGTGGTCCAGACCCTCATCAAGACCAGTTCATTTTTATCCTCTGCTA  
 CACTGCAAACTTTGTCAACGCCATCAGCTTCGAGCATGTCTGCAAGCCAAAAGTCGAGCACCTCACGGG  
 TACGAGGTGTTGAGTGCACACAATATGGCCTACATGTTGAAGAACTGCTCATCAGCTACATCTCCA  
 TCATCTGTGCTATGGCTTCATCTGCCTACACTCTCTTCTGGCTGTTCCAGGATCCCTGAAAGGATA  
 TTCCTTTGAGAAAAGTCCGAGAGGAAAGCAGCTTCAGCGACATCCCGGATGTCAAGAACGACTTCGGGTT  
 CTCTGACATGGTCCAGTACGACCAGCTCTATTCCAAGCGTTTTGGTGTCTTCTTATCTGAAGTCA  
 GTGAAAACAACTGAGGGAAATCAGCCTGAACCATGAGTGGACTTTCGAGAACTCAGGCAGCACGTGTC  
 TCGCAACGCCAGGACAAGCAGGAGCTGCACCTGTTTATGCTGTGAGGGTGCAGGCTGCTTTGAC  
 CTCACGGACCTGGATGTGCTAAAACCTGAACTGATTCCCGAAGCAAAAATTCCTGCCAAGATCTCTCAGA  
 TGACGAACCTTCAAGAACTCCACCTCTGCCACTGCCCTGCCAAGGTGGAGCAGACCGCTTTAGCTTTCT  
 TCGCGTCACTTGAAGTGCCTTATGTGAAGTCACTGACGTGGCTGAAATCCCTGCCTGGGTGATTTG  
 CTCAAAACCTGCGGGAGCTGTACTTGTAGGCAACTTGAAGTCAAGAAACAATAAGATGATCGGGCTGG  
 AGTCTCTGCGAGAGCTGCGGCACCTAAGATCCTCCACGTGAAGAGTAACCTGACCAAAGTCCCTCCAA  
 CATAACTGACGTGGCTCCTCACCTACCAAGCTCGTCATCCACAATGACGGCACCAAGCTTTGGTGTCTC  
 AACAGCCTGAAGAAGATGATGAACGTTGCCGAGCTAGAGCTGCAGAACTGTGAGCTGGAGAGGATCCAC  
 ACGCCATTTTTCAGCCTTCTAACTTGCAGGAGCTGGACCTGAAGTCCAACAGCATCCGCACGATCGAGGA  
 GATCATCAGTTTCCAACCTGAAGCGACTGACTTGTGAAATGTGGCACAATAAAATTTGGCCATT  
 CCTCCCTCATTACCCAGTCAAGAACCTGGAGTCCCTACTTCTCCAACAACAAGCTCGAGTCCCTTAC  
 CGGTGGCAGTGTAGTTTACAGAACTCAGATGCTTAGATGTCAGCTATAACAACATTTCCACGATCCC  
 CATAGAGATAGGTTTGCCTCAGAACCTGCAGCATTGACATCACAGGGAACAAGTGGAGCTTCTGCCA  
 AAACAGTTGTTTAAAGTGGTGAAGTTGAGGACTTGAACCTGGGGCAGAAGTGCATCGCCTCCCTGCCTG  
 AGAAGATCAGTACGTGTCCAGCTCACTCAGCTGGAGCTGAAGGGCAACTGTCTCGACCGCTGCCAGC  
 CCAGCTGGGCCAGTGTGGATGCTCAAGAAAAGCGGGCTTGTGTAGAAGACCAACTGTTTGACACGCTG  
 CCACTGGAAGTCAAGAGGCATTGAATCAAGACGTAATGTCCCTTTGCGAACGGGATT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001008338  
**Insert Size:** 2583 bp

<b>OTI Disclaimer:</b>	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).
<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_001008338.1</a> , <a href="#">NP_001008339.2</a>
<b>RefSeq Size:</b>	3213 bp
<b>RefSeq ORF:</b>	2583 bp
<b>Locus ID:</b>	305131
<b>UniProt ID:</b>	<a href="#">Q5U308</a>
<b>Cytogenetics:</b>	14p22
<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 (PubMed:28833202). 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 (By similarity). Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition (PubMed:28833202).[UniProtKB/Swiss-Prot Function]