

## Product datasheet for **RN214224**

### **Lrrc8c (NM\_001037179) Rat Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Lrrc8c (NM_001037179) Rat Untagged Clone |
| Tag:                      | Tag Free                                 |
| Symbol:                   | Lrrc8c                                   |
| Synonyms:                 | RGD1306585                               |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**Fully Sequenced ORF:** >RN214224 representing NM\_001037179  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTCCAGTGACCGAGTTCGGCAGTTCCTCCGAGCAGCAGCCTGCCTCCGGGTGCTGAAGCCGTGGT  
 GGGATGTGTTACGGACTACCTCTCGGTGGCCATGCTGATGATCGGGGTGTTGGATGACTTTACAAGT  
 CATGCAAGACAAGATCATCTGCCTCCAAAAAGAGTGCAGCCTGCTCAGAACCCTCTTCCCTCTCCAAC  
 GTCTCCAGACTGTGATCAATACCACCCGCTGCCCCACCTAAACCCTCTCCGACCAACCCGGCGACCG  
 TGGAGATGAAGGGACTGAAGACAGACCTGGACCTCCAGCAGTACAGTTTCATCAACCAGATGTGCTACGA  
 GCGAGCCCTCCACTGGTATGCCAAGTACTTCCCGTACCTTGTGCTCATCCACACCCTGGTCTTCATGCTC  
 TGCAGCAACTTCTGGTTCAAGTTCCTGGATCTAGTTCAAAATAGAACATTTTCATCTCCATCCTGGGGA  
 AGTGCTTCGACTCCCGTGGACACTCGGGCTCTCTCCGAGGTGTCTGGCGAGGACTCCGAAGAGAAGGA  
 CAATAGGAAGAACAACATGAACAGTCCAACACCATCCAGTCCGGTCCGGAAGGCAGCCTGGTCAAGTCC  
 CAGTCTCTCAAGTCAATTCGAGAAAGTTCGTGGTTGACAAATCCACTGCGGGGGCTCTGGACAAGAAGG  
 AAGGTGAACAGGCCAAGGCCCTGTTTCGAGAAGGTTAAGAAGTTCAGACTGCACGTGGAGGAAGGTGACAT  
 CCTGTATGCCATGTATGTGCGGCAGACTGTGCTTAAGGTCAAGTTCCTGATCATCATCGCCTACAAC  
 AGTGCTCTGGTTTCCAAAGTCCAGTTCACCGTGGACTGCAATGTGGACATCCAGGACATGACGGGTATA  
 AGAACTTTTCTGCAATCACACCATGGCTCATTGTTCTCCAACTCTCCTTTTGCTACCTGTGCTTTGT  
 AAGCATACGGCCTGACGTGCCTTTATACCTGTACTGGCTGTCTACCGTTCTCTGAGGGAGTACTCT  
 TTTGAGTATGTCGGCAGGAGACTGGAATCGATGACATTCCGGACGTGAAAAATGACTTTGCCTTATGC  
 TCCATATGATAGACCAGTATGACCTCTCTATTCCAAGAGGTTTTCGGGTCTCCTCTCTGAGGTGACGCA  
 GAACAAGTTAAAGCAGCTCAACTTAAATAACGAGTGGACCCCGACAAGCTGCGGCAGAAGCTGCAGCAG  
 AATGCCACAACCGCCTGGAGCTGCCTCTCATCATGCTGTCTGGCCTCCAGACACCGTGTTCGAGATCA  
 CGGAGTTACAGTCCCTGAAGCTGGAGATCATTAAAGACGTGATGATACCCGCCACCATCGCCAGCTAGA  
 CAACCTTCAGGAGCTCTCCCTCCACAGTGTCCGTCAAGATCCACAGTGCAGCCTCTCCTTCTGAAG  
 GAGAATCTCAAGGTCTTGAGCGTCAAGTTCGATGACATGAGGGAGCTGCCCCCTGGATGTACGGCCTCC  
 GGAATCTGGAAGAGCTCTATCTGGTTGGCTCTCTGAGTACGACATCTCCAAAACGTCAACCTGGAGTC  
 CCTGCGGGACCTCAAAGCCTTAAAATCCTTTCCATCAAGAGCAACGTCTCCAAGATCCCTCAGGCCGTG  
 GTGGATGTGTCCAGCCACCTCCAGAAGATGTGCATTACAACGACGGCACCAAGTGGTAAATGCTCAACA  
 ACCTGAAGAAGATGACCAACCTGACCGAGCTGGAAGTCCACTGCGACCTGGAACGCATTCCCCACGC  
 CGTGTTCAGCCTGCTCAGTCTCCAGGAGCTGGACCTGAAGGAGAACAACCTGAAGTCCATAGAGGAGATC  
 GTGAGTTTCCAGCACTTGAGAAAGCTAACCGTGTCAAAGTGTGGTATAACAGCATCGCTTACATCCAG  
 AGCACATCAAGAACTGACCAGCCTGGAGCGACTGTTTTTCAGCCACAATAAGGTAGAAGTGCTTCCCTC  
 CCACCTCTTCTGTGCAACAAAATCAGATACCTGGACCTGTCTATAACGACATTCGCTTACATCCCGCC  
 GAAATCGGGTCTGCAAAAGTTTACAGTATTTCTCCATCACCTGTAAACAAAGTGGAGAGCCTCCCGGATG  
 AACTCTACTTCTGCAAGAACTTAAAACATTGAAGATCGGGAAAAACAGCCTCTCTGTACTTTACACAAA  
 AATTGGAACTTACTATTTCTTCTACTTAGACATCAAAGGCAATCACTTTGAAGTCTCCCTCCCGAG  
 CTGGGAGACTGCCGGCTCTGAAACGAGCCGGCTGTTGTGGAAGACGCTCTGTTTGGAGACTCTGCCCT  
 CAGATGTCCGGGACAAATGAAAGCAGACT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001037179  
**Insert Size:** 2412 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_001037179.1</a> , <a href="#">NP_001032256.1</a>  |
| <b>RefSeq Size:</b>           | 2883 bp  |
| <b>RefSeq ORF:</b>            | 2412 bp  |
| <b>Locus ID:</b>              | 289443   |
| <b>UniProt ID:</b>            | <a href="#">Q498T9</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 (By similarity). Plays a redundant role in the efflux of amino acids, such as aspartate and glutamate, 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 (PubMed:28833202).[UniProtKB/Swiss-Prot Function] |