

Product datasheet for **SC105781**

LRRC8C (NM_032270) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC8C (NM_032270) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRRC8C
Synonyms:	AD158; FAD158
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC105781 sequence for NM_032270 edited (data generated by NextGen Sequencing)

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ATGATTCCTGACAGAAATCCGGCAGTTCTCTGAGCAGCAGCCTGCCTCCGAGTGCTG
AAGCCATGGTGGGATGTGTTTACCGATTACCTCTCAGTAGCCATGCTCATGATCGGCGTG
TTTGGATGTAATTTACAGGTCATGCAAGACAAGATAATCTGCCTCCGAAAAGAGTGCA
CCTGCTCAGAACCACCTCTCCCTTTTCAATGCTCTCAAGCAGTTGCCAGTACCCTCCA
CTGCCTCCACCTAAACCATCTCCTGCTAACCCCATCACTGTGAAATGAAAGGCCTGAAG
ACAGATTTGGACCTTCAGCAGTACAGCTTTATAAATCAGATGTGTTATGAGCGAGCCCTC
CACTGGTATGCCAAGTATTTCCCTTACCTTGCCTCATCCATACCCTGGTCTTTATGCTC
TGCAGTAACTTTTGGTTCAAATCCCTGGTTCCAGCTCCAAAATAGAACATTTTCATCTCC
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GAGGACTCAGAAGAAAAGGACAACAGGAAGAACAACATGAACAGGTCCAACACCTCCAA
TCTGGTCCAGAAGGCAGCCTGGTCAACTCTCAGTCTTTAAAGTCCATTCTGAGAAGTTT
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TTATTTGAGAAGGTGAAGAAGTTCAGGCTGCATGTGGAAGAAGGTGATATTCTATATGCC
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GAAAACAATCTGAAATCTATAGAAGAAATCGTTAGCTTTCAGCACTTAAGAAAGTTGACA
GTGCTAAAACCTGTGGCATAACAGCATCACCTACATCCCAGAGCATATAAAGAACTCACC
AGCCTGGAACGCCTGTCTTTAGTCAACAATAAAATAGAGGTGCTGCCTTCCCACCTCTC
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AAAACAGAATAA
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Clone variation with respect to NM_032270.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032270 unedited
 TAAGTTCAGATTTGTATACGACTCATATAGGCGGCCGGAATTCGCACGAGGGCTTGCGG
 GGCTGGGGCGTTAGCTGCGTCCCGGCTGGAAGCCCGCAAGAGAAGTAGGAGGAAGGCGC
 CGCCGTGGCCGCGGCCGAGTGCCTGGGCGCGACAAGCCATGAGCAGCGACCCCGCGGGC
 GACGCCGCGTCCCTGGCAGCCGCTGAGCCGACCCCAAGCAGCTCGCCGCTCCCTAGC
 ACCTTCTCCAGTCGACACTCTCGCGCCCGAGAAAACATGATCCCGTGACAGAATCCGG
 CAGTTCTCTGAGCAGCAGCCTGCCTCCGAGTGTGAAGCCATGGTGGGATGTGTTTACC
 GATTACCTCTCAGTAGCCATGCTCATGATCGGCGTGTGGATGTAATTTACAGGTCATG
 CAAGACAAGATAATCTGCCTTCCGAAAAGAGTGCAGCCTGCTCAGAACCCTCTTCCCTT
 TCGAATGTCTCTCAAGCAGTTGCCAGTACCCTCCACTGCCTCCACCTAAACCATCTCT
 GCTAACCCATCACTGTGAAATGAAAGGCCTGAAGACAGATTTGGACCTTCAGCAGTAC
 AGCTTTATAAATCAGATGTGTTATGAGCGAGCCCTCCACTGGTATGCCAAGTATTTCCCT
 TACCTTGTCTCATCCATACCCTGGTCTTATGCTCTGCAGTAACTTTTGGTTCANATTC
 CCTGGTCCAGCTCCAAAATAGAACATTTTATCTCCATTCTGGGAAAAGTNNGTTTGACT
 CTCCTTGGACCACACGGGCTTTATCTGAAGTGTCTGGNGAGGACTCAGAAGAAAGGACAC
 AGGAAGAACACATGAACGGTCCAACCCATCCATCTGGTCAGAGGCAGCCTGGTCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032270 unedited
 CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTGGAAAAACAATTAAT
 TTTTATAAAAATACATACNTCCTTACGCGATCTTTGTGTACATTTTGTGTGAAAAGGAA
 AAAAAATAGGAAAGGCATTAAGACTACCTAATTTTATACTGTATTTGGTAGAAGCGT
 GTTTCAGTCAAATTTAACGAAAAATAAGTTATTCTGTTTTTCACTTCCCGGACGTCA
 GAAGGCAGAGTTTCAAACAGAGCATCTTCTACAATAAACAGCTCGCTTCAGAGCCCGA
 CAGTCACCCAGTTCAGGAGGGAGGATTTCAAAGTGATTACCTTTTACATCTAAGTAGGAA
 AGAAATAGCAAATTTCCAATTTTCGGTGAAGTACAGATAGGCTGTTTTTCCAATCTTC
 AGAGTTTTAAGTTTTCTGCAGAAGTAGAGTTTCACTGGAAGGCTTCCACTTTGTACAT
 GTGATGGAAAAACTGTAACTTTGTAGAATCCAATTTCCAGGGGGATAAATCGAATG
 TCATTGTACGATAAGTCCAAGTATCGGATCTTGTGCATAGGAAGAGGTGGGAAGGCAGC
 ACCTCTATTTTATTGTGACTAAAGGACAGGCGTCCAGGCTGGTGTGAGTTTCTTTATATGC
 TCTGGGATGTANGTGATGCTGTTATGCCACAGTNTAGCACTGTCACTTTCTTAAGTGC
 TGAAGCTAACGATTTCTCTATAGATTTTCAAGTTGGTTTTCTTTCAGGTCCTTCCCTGG
 AGGCTGAGTANGCTGAACACAGCATGAGGGATACGCTNCAAGTACAGTGGNACAGCTNC
 AGCTCTGTGAGATGGNTCATCTTCTTTAGNNTGTGAGCATNACAGACTTGGNTGCCATC
 ATTATGTATGCACATCTTCTGGGAAATGGNCTGAAACATTTCCCACTGGNCTGAGGATTN
 TGGNAAACNNTGCTTTGATNNAGAGAATTTTAGGCTTTTTGAAATCCGACAGACCTCAGG
 GGGGAATCTGGGATATATGATCTAAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_032270

Insert Size:

2620 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>NM_032270.2</u> , <u>NP_115646.2</u>
RefSeq Size:	2575 bp
RefSeq ORF:	2412 bp
Locus ID:	84230
UniProt ID:	<u>Q8TDW0</u>
Cytogenetics:	1p22.2
Domains:	LRR, LRR_TYP, LRR_PS
Protein Families:	Transmembrane
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 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. [UniProtKB/Swiss-Prot Function]