

Product datasheet for **SC105828**

LRRC8D (BC009486) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC8D (BC009486) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRRC8D
Synonyms:	FLJ10470; FLJ20403; leucine-rich repeat-containing 5; leucine rich repeat containing 5; leucine rich repeat containing 8 family, member D; LRRC5; OTTHUMP00000012307
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC009486, the custom clone sequence may differ by one or more nucleotides

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ATGGTCAGTAGCAACTTTTGGTTCAAATATCCCAAACATGCTCAAAGTAGAACATTTTGTTCATAT  
TAGGAAAAGTGCTTTGAATCCCCTTGGACGACAAAAGCGTTGTCTGAGACAGCATGCGAAGACTCAGAGGA  
AAACAAGCAGAGAATAACAGGTGCCAGACTCTACCAAAGCATGTTTCTACCAGCAGTGATGAAGGGAGC  
CCCAGTGCCAGTACACCAATGATCAATAAACTGGCTTTAAATTTTCTAGCTGAGAAGCCTGTGATTGAAG  
TTCCCAGCATGACAATCCTGGATAAAAAGGATGGAGAGCAGGCCAAAGCCCTGTTTGAGAAAAGTGAGGAA  
GTTCCGTGCCATGTGGAAGATAGTGACTTGATCTATAAACTCTATGTGGTCCAAACAGCTTCTCCCTT  
CCCAACCAATAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC009486 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGTCCCGGTGCAGCCGC CGCCCCCGCGGGTGATGCCGCCACCTCCGGCCTCAGCATAAGCCGTGGCTTGGCGGCCG AGCTGCACCCCAAGGAAGTGCACGGCTGTCTATAACGTGCTGCCGGTCTCAGGATGGAG GAGTGAAGTCTCCTGTCGCCGTGGTCCAGCCTCCGGAGCTCGCCCAAGCCGCGTCCCA GAGAGCGCCCTGAGAGAACAGGGTGGCCGCTTGGTCCAGGAATGTTTACCCTTGGCGAAG TTGCATCACTTAATGACATTCAGCCAACCTACCGAATCCTGAAACCATGGTGGGATGTGT TTATGGATTACCTAGCTGTTGTTATGTTAATGGTAGCCATCTTTGCAGGAACCATGCAAC TTACCAAAGATCAGTGCTGTGTTTCCAGTATTGCCATCTCCTGTAATTCAAAGGCAC ATACACCACCAGGAAATGCCGAGGTCACCACCAACATCCCAAAGATGGAAGCAGCCACCA ACCAAGACCAAGATGGGCGGACAACAAACGACATTTCTTTGGGACATCTGCTGTGACAC CTGACATACCTCTCAGAGCCACATATCCTCGCACAGATTTGCACTTCCAAATCAGGAGG CAAAGAAAGAGAAGAAAGATCCAACAGGTCGAANAACAACTTGGATTTTTAGCATATGT ATTTATTAATCAAATGTGTTACCATCTGGCCCTTNNCGTGGTATTCTAAGTACTTTCCAT ACCTAGCTCTTATACATACTATTATTCTCATGGGCAGTAGCACCTTTTGGNTCAATATCC CANACATGCTCAAAGTAGACATTTTGTTCATATTANGAAAGGCTTGAATCCCTTGACACC AACGTGTCTGAGAACATGCAA
Restriction Sites:	NotI-NotI
ACCN:	BC009486
Insert Size:	3500 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>BC009486.1, AAH09486.1</u>
RefSeq Size:	1361 bp
RefSeq ORF:	432 bp
Locus ID:	55144
Cytogenetics:	1p22.2
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 (PubMed:24790029, PubMed:26530471, PubMed:26824658, PubMed:28193731). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine (PubMed:24790029, PubMed:26824658, PubMed:28193731). Plays a redundant role in the efflux of amino acids, such as aspartate, in response to osmotic stress (PubMed:28193731). 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:24782309, PubMed:24790029, PubMed:26824658, PubMed:28193731). LRRC8A and LRRC8D are required for the uptake of the drug cisplatin (PubMed:26530471). Mediates the import of the antibiotic blasticidin-S into the cell (PubMed:24782309).[UniProtKB/Swiss-Prot Function]