

Product datasheet for **SC325336**

LRRC8B (NM_001134476) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	LRRC8B
Synonyms:	TA-LRRP; TALRRP
Vector:	<u>pCMV6 series</u>



Fully Sequenced ORF: >NCBI ORF sequence for NM_001134476, the custom clone sequence may differ by one or more nucleotides

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ATGATTACACTAACTGAGCTAAAATGCTTAGCAGATGCCAGTCATCTTATCACATCTTA
AAACCATGGTGGGACGTCTTCTGGTATTACATCACACTGATCATGCTGCTGGTGGCCGTG
CTGGCCGGAGCTCTCCAGCTGACGCAGAGCAGGGTTCTGTGCTGTCTTCCATGCAAAGTG
GAATTTGACAATCACTGTGCCGTGCCTTGGGACATCCTGAAAGCCAGCATGAACACATCC
TCTAATCCTGGGACACCGCTTCCGCTCCCCCTCCGAATTCAGAATGACCTCCACCGACAG
CAGTACTCCTATATTGATGCCGTCTGTTACGAGAAACAGCTCCATTGGTTTGCAAAGTTT
TTCCCCATCTGGTGCTTTGCACACGCTCATCTTTGCAGCCTGCAGCAACTTTTGGCTT
CACTACCCAGTACCAGTTCAGGCTCGAGCATTTTGTGGCCATCCTTCACAAGTGCTTC
GATTCTCCATGGACCACCCGCGCCCTTTAGAAACAGTGGCTGAGCAGTCAGTGAGGCTT
CTGAAACTCTCCAAGTCCAAGATTTTGTCTTCGTCCTCAGGGTGTTCAGCTGACATAGAT
TCCGGCAAACAGTCATTGCCCTACCCACAGCCAGGTTTGGAGTCAGCTGGCATAGAAAGC
CCAAGTTCAGTGTCTGGACAAGAAGGAGGGTGAACAGGCCAAAGCCATCTTTGAAAAA
GTGAAAAGATTCCGCATGCATGTGGAGCAGAAGGACATCATTTATAGAGTATATCTGAAA
CAGATAATAGTCAAAGTCATTTTGTGTGCTCATCAACTTATGTTCCATATTTTTTA
ACCCACATCACTCTTGAATCGACTGTTCAAGTTGATGTGCAGGCTTTTACAGGATATAAG
CGCTACCAGTGTGCTATTCTTGGCAGAAATCTTTAAGGTCCTGGCTTCATTTATGTC
ATTTTGGTTATACTTTATGGTCTGACCTCTTCTACAGCCTGTGGTGGATGCTGAGGAGT
TCCCTGAAGCAATATTCCTTTGAGGCGTTAAGAGAAAAAGCAACTACAGTGACATCCCT
GATGTCAAGAATGACTTTGCCTTCATCCTTCATCTGGCTGATCAGTATGATCCTCTTTAT
TCCAAACGCTTCTCCATATTCCTATCAGAGGTCAGTGAGAACAACTGAAACAGATCAAC
CTCAATAATGAATGGACAGTTGAGAACTGAAAAGTAAGCTTGTGAAAAATGCCAGGAC
AAGATAGAAGTGCATCTTTTTATGCTCAACGGTCTTCCAGACAATGTCTTTGAGTTAACT
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GCACTGGCCTTTCTAGAGGAGAATTTAAAAATCCTCCGCCTGAAATTTACTGAAATGGGA
AAAATCCCACGCTGGGTATTTACCTCAAGAATCTCAAGGAACTTTATCTTTCCGGCTGT
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CCTTCATTGCAGAACTGTCCCTTGATAATGAGGGAAGCAAACTGGTTGTGTTGAACAAC
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AAAAGTGTGGAAGAGATCATTAGCTTTTCAAGCATCTTCAGAACTTTTCTGCTTAAAGTTG
TGGCACAATAACATTGCTTATATTCCTGCACAGATTGGGGCATTATCTAACCTAGAGCAG
CTCTCTTTGGACCATAATAATATTGAGAATCTGCCCTTGACGCTTTTCTATGCACTAAA
CTACATTATTTGGATCTAAGCTATAACCACTTGACCTTCATTCCAGAAGAAATCCAGTAT
CTGAGTAATTTGCAGTACTTTGCTGTGACCAACAACAATATTGAGATGCTACCAGATGGG
CTGTTTCAGTGCAAAAAGCTGCAGTGTCTTACTTTTGGGAAAAATAGCTTGATGAATTTG
TCCCCTCATGTGGTGAGCTGTCAAACCTTACTCATCTGGAGCTCATTGGTAATTACCTG
GAAACACTTCTCTGAAGTAGAAGGATGTGAGTCCCTAAAACGGAAGTGTCTGATTGTT
GAGGAGAACTTGCTCAATACTCTCTCTCCCTGTAACAGAACGTTTACAGACGTGCTTA
GACAAATGT

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Restriction Sites: Please inquire

ACCN: NM_001134476

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001134476.1, NP_001127948.1</u>
RefSeq Size:	7766 bp
RefSeq ORF:	2412 bp
Locus ID:	23507
UniProt ID:	<u>Q6P9F7</u>
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:26824658, PubMed:28193731). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine. 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:24790029, PubMed:26824658, PubMed:28193731). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.