

Product datasheet for **RG226175**

LRRC8B (NM_001134476) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC8B (NM_001134476) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRC8B
Synonyms:	TA-LRRP; TALRRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226175 representing NM_001134476.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGATTACACTAACTGAGCTAAAATGCTTAGCAGATGCTCAGTCATCTTATCACATCTTAAACCATGG
TGGGACGTCTTCTGGTATTACATCACACTGATCATGCTGCTGGTGCCGTGCTGGCCGAGCTCTCCAG
CTGACGCAGAGCAGGGTTCTGTGCTGTCTTCCATGCAAAGTGAAATTTGACAATCACTGTGCCGTGCC
TGGGACATCCTGAAAGCCAGCATGAACACATCCTCTAATCCTGGGACACCGCTTCCGCTCCCCCTCCGA
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TGGCTTCACTACCCAGTACCAGTTCAGGCTCGAGCATTTTGTGGCCATCCTTCAAGTGCTTCGAT
TCTCCATGGACCACCCGCGCCCTTTCAGAAACAGTGGCTGAGCAGTCAGTGAAGCCTCTGAAACTCTCC
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TACCCACAGCCAGTTTGGAGTCAGCTGGCATAGAAAGCCAACCTCCAGTGTCTGGACAAGAAGGAG
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ATTTATAGAGTATATCTGAAACAGATAATAGTCAAAGTCATTTTGTGTTGTCTATCATAACTTATGTT
CCATATTTTTAAACCACATCACTCTTGAAATCGACTGTTGAGTTGATGTGCAGGCTTTTACAGGATAT
AAGCGCTACCAGTGTGTCTATTCCTTGGCAGAAATCTTTAAGGTCTGGCTTCATTTTATGTCAATTTG
GTTATACTTTATGGTCTGACCTTCTCTACAGCCTGTGGTGGATGCTGAGGAGTTCCTGAAGCAATAT
TCCTTTGAGGCGTTAAGAGAAAAAGCAACTACAGTGACATCCCTGATGTCAAGAATGACTTTCCTTC
ATCCTTCATCTGGCTGATCAGTATGATCCTCTTTATTCCAACCGTCTTCCATATTCCTATCAGAGGTC
AGTGAGAACAAACTGAAACAGATCAACCTCAATAATGAATGGACAGTTGAGAAACTGAAAAGTAAGCTT
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CGCATCCACATTCATTTTTCAGCCTGAATAATTTGCATGAGTTAGACCTAAGGGAAAAATACCTTAAA
ACTGTGGAAGAGATCATTAGCTTTCAGCATCTTCAAGATCTTTCCTGCTTAAAGTTGTGGACAATAAC
ATTGCTTATATTCTGCACAGATTGGGGCATTATCTAACCTAGAGCAGCTCTCTTGGACCATAATAAT
ATTGAGAACTGCCCTTGCAGCTTTTCTATGCACTAACTACATTATTTGGATCTAAGCTATAACCAC
TTGACCTTCATTCAGAAGAAATCCAGTATCTGAGTAATTTGCAGTACTTTGCTGTGACCAACAACAT
ATTGAGATGCTACCAGATGGGCTGTTTCAGTGCAAAAAGCTGCAGTGTACTTTTGGGGAAAAATAGC
CTGGAACACTTCTCCTGAAGTGAAGGATGTGAGTCCCTAAAACGGAAGTGTCTGATTGTTGAGGAG
AACTTGCTCAATACTCTCCTCTCCCTGTAAACAGAACGTTTACAGACGTGCTTAGACAAAATGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG226175
 Blue=ORF Red=Cloning site Green=Tag(s)

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MITLTELKCLADAQSSYHILKPWWDFWYYITLIMLLVAVLAGALQLTQSRVLCCLPCKVEFDNHCAVP
WDILKASMTSSNPGTPLPLPLRIQNDLHRQQYSYIDAVCYEKQLHWFKFFPYLVLLHTLIFAACSNF
WLHYPSTSSRLEHFVAILHKCFDSPWTTTRALSETVAEQSVRPLKLSKSKILLSSSGCSADIDSGKQSLP
YPQPGLESAGIESPTSSVLDKKEGEQAKAIFEKVKRFRMHVEQKDIIYRVYLKQIIVKVILFVLIITYV
PYFLTHITLEIDCSVDVQAFGTGKRYQCVYSLAEIFKVLASFYVILVILYGLTSSYSLWMLRSSLKQY
SFEALREKSNYSIDIPDVKNDFAFILHLADQYDPLYSKRFSIFLSEVSENKQKQINLNNEWTVKLSKSL
VKNAQDKIELHLFMLNGLPDNVFELTEMEVLSLELIPEVKLPSAVSQLVNLKELRVYHSSLVVDHPALA
FLEENLILRLKFTMGKIPRWVFHLKLNKELYSGCVLPEQLSTMQLGEGFDLKNLRTLKSSSLSRI
PQVVDLLPSLQKSLDNEGSKLVVLNNLKKMVNLKSELEISCDLERIPHSIFSLNNLHELDLRENNLK
TVEEIIISFQHLQNL SCLKLWHNNIAYIPAQIGALSNLEQLSLDHNNIENLPLQLFLCTKLHYLDLSYNH
LTFIPEEIQYLSNLQYFVAVTNNNIEMLPDGLFQCKKLQCLLLGKNLMMNLSPHVGELSNTLHLELIGNY
LETLPPELEGCSLKRNLIVEENLLNTLPLPVTERTLQCLDKC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites: Sgfl-MluI

- 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 Size: 7766 bp

RefSeq ORF: 2412 bp

Locus ID: 23507

UniProt ID: [Q6P9F7](#)

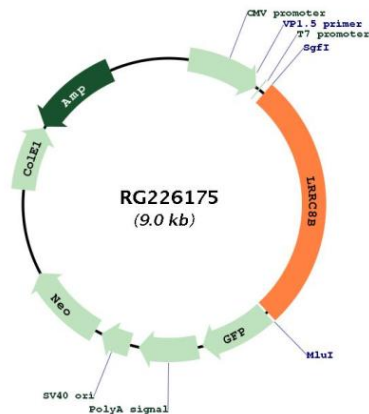
Cytogenetics: 1p22.2

Protein Families: Transmembrane

MW: 92.4 kDa

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 LRR8A plus at least one other family member (LRR8B, LRR8C, LRR8D or LRR8E); channel characteristics depend on the precise subunit composition (PubMed:24790029, PubMed:26824658, PubMed:28193731).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG226175