

## Product datasheet for SC113233

### Leukotriene B4 Receptor 2 (LTB4R2) (NM\_019839) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Leukotriene B4 Receptor 2 (LTB4R2) (NM_019839) Human Untagged Clone
Tag:	Tag Free
Symbol:	Leukotriene B4 Receptor 2
Synonyms:	BLT2; BLTR2; JULF2; KPG_004; LTB4-R 2; LTB4-R2; NOP9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113233 sequence for NM_019839 edited (data generated by NextGen Sequencing)

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ATGTCGGTCTGCTACCGTCCCCAGGGAACGAGACTGCTGAGCTGGAAGACTTCGCGG
GCCACAGGCACAGCCTTCTGCTGCTGGCGGCGCTGCTGGGGCTGCCTGGCAACGCTTC
GTGGTGTGGAGCTTGGCGGGCTGGCGGCTGCACGGGGGCGACCGCTGGCGGCCACGCTT
GTGCTGCACCTGGCGCTGGCCGACGGCGCGGTGCTGCTGCTCACGCCGCTCTTTGTGGCC
TTCCTGACCCGGCAGGCCTGGCCGCTGGCCAGGCGGGCTGCAAGGCGGTGACTACGTG
TGCGCGCTCAGCATGTACGCCAGCGTGCTGCTACCGGCCTGCTCAGCCTGCAGCGCTGC
CTCGCAGTCACCCGCCCTTCTGGCGCCTCGGCTGCGCAGCCCGGCCCTGGCCCGCCG
CTGCTGCTGGCGGTCTGGCTGGCCGCCCTGTTGCTCGCCGTCGCCGCGCCGTCTACCGC
CACCTGTGGAGGGACCGGTATGCCAGCTGTGCCACCGTCGCCGCTCCACGCCCGGCC
CACCTGAGCCTGGAGACTCTGACCGCTTTCGTGCTTCTTTTCGGGCTGATGCTCGGCTGC
TACAGCGTGACGCTGGCACGGCTGCGGGGCGCCCGCTGGGGCTCCGGGGCGCACGGGGCG
CGGGTGGGCCGGCTGGTGGAGCGCCATCGTGCTTGCCTTCGGCTTCTCTGGGCCCTAC
CACGCAGTCAACCTTCTGAGGCGGTGCGAGCGCTGGCTCCACCGGAAGGGGCTTGGCG
AAGTGGGCGGAGCCGGCCAGGCGGCGGAGCGGGAACACGGCCTTGGCCTTCTTCACT
TCTAGCGTCAACCCGGTCTCTACGTCTTACCCTGAGATCTGCTGCCCGGGCAGGT
CCCCGTTTCTCACGCGGCTCTTGAAGGCTCTGGGAGGCCCGAGGGGGCGGCCGCTCT
AGGGAAGGGACCATGGAGCTCCGAACCTACCCCTCAGCTGAAAGTGGTGGGGCAGGGCCG
GGCAATGGAGACCCGGGGGTGGGATGGAGAAGGACGGTCCGGAATGGACCTTTGA

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Clone variation with respect to NM\_019839.4



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_019839 unedited  
 TGGGGGAATGGCAGGATTTGTACCACTTTACTATAGGGCGAGCCGGAATTCGCTTG  
 AGGCATGGCACCTTCTCATCGGGCATCACAGGTGGGGTTTTGCCCAACCCTGAACGCC  
 TCTGTGGCGCCTTCCACCACCTGTAGGCCAGAAGGATGTCGGTCTGCTACCGTCCCC  
 AGGGAACGAGACTGCTGAGCTGGAAGACTTCGCGGGTTTTTGCACAGCCTTCTGTCTG  
 CTGGCGGGCTGCTGGGGCTGCCTGGCAGCGGCTTCGTGGTGTGGAGCTTGGCGGGTGG  
 CGCCTGCACGGNGCGACCGCTGGCGGCCACGCTTGTGCTGCACCTGGCGCTGGCCGAC  
 AGCGCCGTGCTGCTGCTCACGCCGCTCTTTGTGGCCTTCTGACCCGGCAGGCCTGCCCC  
 TTGGCCCGGGCGGCTGAAGGGCGGTAATACTTTGGCCCTAAAATTTACCCACGTGTTT  
 TTACCGCGCTTTATTTTGGGAGTTTCTAAAAAAACCCCTTTTGGGGGCCAAGGGG  
 GAAAAACGGGGGGCCGCCCGTTTTTTTTGGGGATGTGTGGCCCATTTTTTTTGAAC  
 CCGCGCGGGTGTCTCCATTGGGGGGGAGAGGGGTTTTTTTTGTGTGGCCCA  
 TCCCTGTGGGGCACCGCCCGCCCGCGAAAGAGAAAAATAAACCGCCATAATCCTT  
 CTTTATCGAACGAAAAGGAGAAGCGAAAACAACAGAACGGGACAGAGCGAGGGAGAATA  
 ATTATATATTCTTTTTTGTCCGAATATAACAAATAACGGAGATAGGAGAGGGAGGCGG  
 TGATACTATT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_019839 unedited  
 AGTANAGCACTGGGNAGGGTACAGGNATGCCACCCGGGATCTGTTTCAGGAAAAGCTAT  
 GACCGCGCCGAATCTAGAGTCGACAAGCTTGATATCGGTACCAGATCTGAATTCGGCT  
 TGGTCTGCTGTCAAAGGTCCATTCCGGACCGTCTTCTCCATCCACCCCGGGTCTC  
 CATTGCCCTGGCCCTGCCCACTTTTCCAGCTGAGGGGTAGTTCGGAGCTCCATGGTCC  
 CTTCCCTAGAGCGGCCGCCCTCGGGCTCCCAAGAGCCTTCAAGAGCCGCGTGAGGA  
 AACGGGGACCTGCCCGGGCAGCAGATCTCCAGCGGTGAAGACGTANAGCACCGGTTGA  
 CGCTAGAAGTGAAGAAGGCCAAGGCCGTAGTTCGCGCTCGCGCCGCTGGCCGGTCCGC  
 CCAGACTTCCCAAGGCCCTTCCGGTGGAGCCAGCGCTGCGACCGCTGCAAAAGTTGAC  
 TGCGTGGTAGGGGGCCAGAGCAAGCCGAAGGCAAGCACGATGGGGCTCACAAGCCGGCC  
 CACCCGGCGCCTCGTGCCGCCGGAGCCCCAGCGGGCGCCCCGACGCGTCCAGCGTCA  
 CGCTGTTACAGCCGAACCATCACCCGAAGGAAGCACGAAAGCCGTCAGAATCTCCAAGC  
 TCAAGTGGGCGGGCGGTGGACCGNCGACGGGTGGAACAGCTGGCATAACGCGTCCCTCC  
 CAAGGTGGGCGTAAACGGGGGGCCGACAGGGAAAAACAGGGGGCCCAACCAACCCCAT  
 AAAAGGAGGCGGGCCCGCCGGGCTGGCCACCCAC

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_019839

**Insert Size:**

1400 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).

<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>	<u>NM_019839.1, NP_062813.1</u>
<b>RefSeq Size:</b>	2799 bp
<b>RefSeq ORF:</b>	1170 bp
<b>Locus ID:</b>	56413
<b>UniProt ID:</b>	<u>Q9NPC1</u>
<b>Cytogenetics:</b>	14q12
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<p>Low-affinity receptor for leukotrienes including leukotriene B4. Mediates chemotaxis of granulocytes and macrophages. The response is mediated via G-proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of affinities for the leukotrienes is LTB4 &gt; 12-epi-LTB4 &gt; LTB5 &gt; LTB3.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR, compared to variant 2. Both variants 1 and 2 encode the same protein.</p>