

## Product datasheet for **SC110821**

### alpha 1b Adrenergic Receptor (ADRA1B) (NM\_000679) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1b Adrenergic Receptor (ADRA1B) (NM_000679) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha 1b Adrenergic Receptor
Synonyms:	ADRA1; ALPHA1BAR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000679, RT-PCR generated  
 GGCGGACTCTAAGATGAATCCCGACCTGGACACCGGCCACAACACATCAGCACCTGCCCA  
 CTGGGGAGAGTTGAAAAATGCCAACTTCACTGGCCCCAACAGACCTCGAGCAACTCCAC  
 ACTGCCCCAGCTGGACATCACCAGGGCCATCTCTGTGGGCTGGTGTGGGCGCCTTCAT  
 CCTCTTTGCCATCGTGGGCAACATCCTAGTCATCTTGTCTGTGGCCTGCAACCGGCACCT  
 GCGGACGCCCCACCAACTACTTTCATTGTCAACCTGGCCATGGCCGACCTGCTGTTGAGCTT  
 CACCGCTCTGCCCTTCTCAGCGGCCCTAGAGGTGCTCGGCTACTGGGTGCTGGGGCGGAT  
 CTCTGTGACATCTGGGACCGCTGGATGTCTGTGCTGCACAGGCTCCATTCTGAGCCT  
 GTGCGCCATCTCCATCGATCGCTACATCGGGGTGCGCTACTCTCTGCAGTATCCCACGCT  
 GGTCAACCCGAGGAAGGCCATCTTGGCGCTGCTCAGTGTCTGGGTCTTGTCCACCGTCAT  
 CTCCATCGGGCCTCTCCTTGGGTGGAAGGAGCCGGCACCCAACGATGACAAGGAGTGCGG  
 GGTCAACGAAGAACCCTTCTATGCCCTTCTCCTCTCTGGGCTCCTTCTACATCCCTCT  
 GGGGTCATTCTAGTCATGTACTGCCGTGTCTATATAGTGGCCAAGAGAACCACCAAGAA  
 CCTAGAGGCAGGAGTCATGAAGGAGATGTCCAACCTCAAGGAGCTGACCTGAGGATCCA  
 TTCCAAGAACTTTCACGAGGACACCCTTAGCAGTACCAAGGCCAAGGGCCACAACCCAG  
 GAGTTCCATAGCTGTCAAACCTTTTAAAGTTCTCCAGGAAAAGAAAGCAGCTAAGACGTT  
 GGGCATTGTGGTCGGTATGTTTCATCTTGTGCTGGCTACCCTTCTTCATCGCTCTACCGCT  
 TGGCTCCTTGTCTCCACCCTGAAGCCCCCGACGCCGTTCGAAGGTGGTGTCTGGCT  
 GGGTACTTCAACAGCTGCCTCAACCCCATCATCTACCATGCTCCAGCAAGGAGTTCAA  
 GCGCGCTTTCGTGCGCATCTCGGGTGCAGTGCCGCGGGCCGGCCGGCCGGCCGACGCCG  
 CCGCCCGCGTCCCTGGGCGGCTGCGCCTACACCTACCGGCCGTGGACGCGCGGGGCTC  
 GCTGGAGCGCTCGCAGTCGCGCAAGGACTCGCTGGACGACAGCGGCAGCTGCCTGAGCGG  
 CAGCCAGCGGACCTTGCCTCGGCTCGCCGAGCCGGGCTACCTGGGCCGCGCGCGGCTC  
 ACCGCCAGTCGAGCTGTGCGCCTTCCCCGAGTGAAGGCCCGCCGCGCCCTCTGAGCCT  
 GCCCGCGCTGAGCCCCCGGCCCGCGCGCCACGACTCGGGCCCGCTTTCACCTT  
 CAAGCTCTGACCGAGCCGAGAGCCCCGGGACCGACGGCGGCGCCAGCAACGGAGGCTG  
 CGAGGCCCGCGCCGACGTGGCCAACGGGCAGCCGGGCTTCAAAGCAACATGCCCTGGC  
 GCCCGGGCAGTTTtagggccccgtgCGCAGCTTCTTTCTGGGGAGGAAAACATCGTG  
 GGGG

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_000679 unedited  
 NNGGGNNGGTACAATATTTGTTAACTACTCATATAGGCGGCCGNAATTCGCTTGGC  
 GGCCTCTAANATGAATCCCGACCTGGGCACCGGCCACAACACATCAGCACCTGCCCACTG  
 GGGAGAGTTGAAAAATGCCAACTTCACTGGCCCCAACAGACCTCGAGCAACTCCACACT  
 GCCCCAGCTGGACATCACCAGGGCCATCTCTGTGGGCTGGTGTGGGCGCCTTCATCCT  
 CTTTGGCATCGTGGGCAACATCCTAGTCATCTTGTCTGTTGCCTGCAACCGGGGACTTTG  
 GGACCCCCACCAAATATTTTTTTGAAAACCGGGCTGTGGGCCCCCCGGGTTGGAGATTC  
 CACCCCCCGCCCTTTTAAAGGCCCCAAAAGGGGCCCTCCGTGGGGGGGGGGGGGG  
 TTTTTTTGAAAAAAGCGGCCCCCGTGTTTTTTTTTTTTTTAAAAAACATATCTTTTTTTT  
 TGGGGGGGGGGCCCCCTCTATTATTCCTTTCTACTCAACAGGGGGGNAGCGGCCTTCT  
 TCTTTTTTNNCTACCCACCCNCCCCCCCCAAAAAAAAGGAAAAAAAAAAAAAAGGNC  
 CCCCCCCCCCTCGAAAATTGGGGGTGTTTTTGGTCCCCCACCCACTANCCAAAAN  
 CCCCCCTTCTTTTTTTTCAAAGGGGGGGGGGGGGAGGGGGNGNCCACCCCCCAC  
 CAAAAAAGAAAAAGAAGTNGTGGGGGTGCCNNNNNAANAAAAAACAANAACACN  
 NNCCTTCTCCCCCCTCCCTTNNNTNNNTTTTTTTTTTTTTTGTNNNNGTTNNCAGTTTG  
 TCCGCCCCAAAAAAG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_000679 unedited NAATNNTCGGCTNNTCCCCACGNAATGTTTNTCTCCCCAGGGNAAAGAAAGCTGCGC ACGGGGGCCCTAAACTGCCCGGGCGCCAGGGGCATGTTGCTTTGAAGCCCGGCTGCC GTTGGCCACGTCGGCCGCGGCTCGCAGCCTCCGTTGCTGGCGCCGCGTCCGGTCCCGGG GCTCTCGGGCTCGGTCAAGGCTGAAGGTGAAGAGCGGGCCGAGTCGTGGCGGCCGCG GCGGCCGGGGGCTCAGGCGCGGCAGGCTCAGGAGGGCGCCGGGCGCCTTCCACTCGGG GAAGCGCACAGCTCGACTGGCGGTGGCGCGCCGCGGCCAGGTAGCCCGGGCTCGGCGA GGCCGAGGGCAAGTCCGCTGGCTGCCGCTCAGGCAGCTGCCGCTGTCGTCCAGCGAGTC CTTGCGGACTGCGAGCGCTCCAGCGAGCCGCGCGCTCCACGGCCGGTAGGTGTAGGC GCAGCCGCCAGGCGACGGCGGGCGGCGTCCGCGCGGCCGCGGCCGCGGCACTGGCA CCCAGGATGCGCACAAAGCGCGCTTGAACCTCTTGCTGGAGCATGGGTAGATGATGGG GTTGAGGCAGCTGTTGAAGTAGCCAGCCAGAACACCACCTTATACAGGCGTCGGGGGG CTTCAGGTGGAGAACAAGGAGCCAAGCGGTAGAGCGATGAATAAGGTAGCCAGCACAAG ATGAACATACCGACCACAATGCCAACGCTTAGCTGCTTCTTTCTTGAGAACTTAA AAGTT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000679
<b>Insert Size:</b>	1740 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<a href="#">NM_000679.3</a> , <a href="#">NP_000670.1</a>
<b>RefSeq Size:</b>	2272 bp
<b>RefSeq ORF:</b>	1563 bp
<b>Locus ID:</b>	147
<b>UniProt ID:</b>	<a href="#">P35368</a>
<b>Cytogenetics:</b>	5q33.3
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction

**Gene Summary:**

Alpha-1-adrenergic receptors (alpha-1-ARs) are members of the G protein-coupled receptor superfamily. They activate mitogenic responses and regulate growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. This gene encodes alpha-1B-adrenergic receptor, which induces neoplastic transformation when transfected into NIH 3T3 fibroblasts and other cell lines. Thus, this normal cellular gene is identified as a protooncogene. This gene comprises 2 exons and a single large intron of at least 20 kb that interrupts the coding region. [provided by RefSeq, Jul 2008]