

## Product datasheet for **SC127880**

### beta 1 Adrenergic Receptor (ADRB1) (NM\_000684) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta 1 Adrenergic Receptor (ADRB1) (NM_000684) Human Untagged Clone
Tag:	Tag Free
Symbol:	beta 1 Adrenergic Receptor
Synonyms:	ADRB1R; B1AR; BETA1AR; FNSS2; RHR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC127880 representing NM_000684. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGCGCGGGGTGCTTGTCTGCTGGGCGCCTCCGAGCCCGGTAACCTGTCGTGCGCCGCACCGCTCCCC
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CTGGCCCGGCCGACCCCGCCATCGCCCGGGCCGCTCGGACGACGACGACGATGTGTCGGG
GCCACGCCCGCGCGCCTGCTGGAGCCTGGGCGGCTGCAACGGCGGGGCGCGCGGACAGCGAC
TCGAGCCTGGACGAGCCGTGCCGCCCGGCTTCGCCTCGGAATCCAAGGTAG

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000684 unedited ATAGGGCGGCCGCGAATTCGCCCTTCTGGGGTGTTCCTCAACCACGGCGNANCGCCGTAA CACCCCCCGCCCCGGCCTCCGCAGCTCGGCATGGGCGCGGGGGTGTTCCTGGGCGC CTCCGAGCCCGGTAACCTGTCTGTCGGCCGACCGCTCCCCGACGGCGCGGCCACCGCGGC GCGGCTGTGGTCCCGCGTCGCCGCCCGCCTCGTTGCTGCCTCCCGCCAGCGAAAGCCC CGAGCCGCTGTCTCAGCAGTGGACAGCGGGCATGGGTCTGCTGATGGCGCTCATCGTGCT GCTTATCGTGGCGGCAATGTGCTGGTGATCGTGGCCCATCGCCAAGACGCCCGCGCTGG AGACGCTTAACAACCTTTTCATCATGTCCCTGGCCAGCGCCACCTGGATAAGGGGCTAG TGGTGGTTGCCGTTCCGGGCAACATTCCGGTGTGGGGCCCACTGGGAAATCAGGTCCTT TCTTTGCGAGCTTGGACCTTAATGGAATTGCTTGTCTGTAAGGCCAGCCCTCAACCCC GGGGGTCTATGCCTGGACCATATCTGGAATAATTTGCGATTTTGCATCTAAAACAC GATAACTCCCCCGGGCACGGAGATCTTTGGTCCCAGTGTGGTCACACTACGGCTCT CGGATTCCTTAACCATTTCACTAAGCCGTGGGGCAGGAGAATTAAGAAATAGCTGCA CGCTTGCTAAAGATCCCTGAAAGGTGGAGATGTGTCAATACTTGGTAACAT
<b>Restriction Sites:</b>	EcoRI-EcoRI
<b>ACCN:</b>	NM_000684
<b>Insert Size:</b>	1434 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>OTI Annotation:</b>	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.
<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_000684.1</a>
<b>RefSeq Size:</b>	1723 bp
<b>RefSeq ORF:</b>	1434 bp
<b>Locus ID:</b>	153
<b>UniProt ID:</b>	<a href="#">P08588</a>
<b>Cytogenetics:</b>	10q25.3
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane

<b>Protein Pathways:</b>	Calcium signaling pathway, Dilated cardiomyopathy, Endocytosis, Gap junction, Neuroactive ligand-receptor interaction
<b>MW:</b>	51.2 kDa
<b>Gene Summary:</b>	The adrenergic receptors (subtypes alpha 1, alpha 2, beta 1, and beta 2) are a prototypic family of guanine nucleotide binding regulatory protein-coupled receptors that mediate the physiological effects of the hormone epinephrine and the neurotransmitter norepinephrine. Beta-1 adrenoceptors are predominately located in the heart. Specific polymorphisms in this gene have been shown to affect the resting heart rate and can be involved in heart failure. [provided by RefSeq, Sep 2019]