

Product datasheet for **SC124091**

alpha 2C Adrenergic Receptor (ADRA2C) (NM_000683) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 2C Adrenergic Receptor (ADRA2C) (NM_000683) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha 2C Adrenergic Receptor
Synonyms:	ADRA2L2; ADRA2RL2; ADRARL2; ALPHA2CAR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC124091 sequence for NM_000683 edited (data generated by NextGen Sequencing)

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ATGGCGTCCCCGGCGCTGGCGGCGGCGCTGGCGGTGGCGGCAGCGGGCCCAATGCG
AGCGGCGCGGGCAGAGGGGCAGCGGGGGTTGCCAATGCCTCGGGGGCTTCCTGGGG
CCGCCGCGGCCAGTACTCGCGGGCGCGGTGGCAGGGCTGGCTGCCGTGGTGGCTTC
CTCATCGTCTTACCCTGGTGGCAACGTGCTGGTGGTATCGCCGTGCTGACCAGCCGG
GCGCTGCGCGGCCACAGAACCTTCTGTTGTCGCTGGCCTCGGCCGACATCCTGGTG
GCCACGCTGGTTCATGCCCTTCTCGTTGGCCAACGAGCTCATGGCCTACTGGTACTTCGGG
CAGGTGTGGTGGCGCTGTACCTGGCGCTCGATGTGCTGTTTTGCACCTCGTCGATCGTG
CATCTGTGTGCCATCAGCCTGGACCCTACTGGTGGTGACGCAGGCCGTGAGTACAAC
CTGAAGCGCACACCACGCCGCTCAAGGCCACCATCGTGGCCGTGGCTCATCTCGGCC
GTCATCTCTTCCCGCCGCTGGTCTCGCTCTACCGCCAGCCGACGGCGCCGCTACCCG
CAGTGGCGCTCAACGACGAGACCTGGTACATCCTGTCTCCTGCATCGGCTCCTTCTTC
GCGCCCTGCCTCATCATGGCCCTGGTCTACGCGCGCATCTACCGAGTGGCCAAGTGGCG
ACGCGCACGCTCAGCGAGAAGCGCGCCCCGTTGGCCCCGACGGTGGTCCCCGACTACC
GAAAACGGGCTGGGCGCGCGCGCAGGCGCAGGCGAGAACGGGCACTGCGGCCCCCGCCC
GCCGACGTGGAGCCGGACGAGAGCAGCGCAGCGCCGAGAGGCGGCGCGCGGGGCGCG
TTGCGGCGGGGGCGGGCGCGGAGCGGGCGCCGAGGGGGCGCGGGCGGTGCGGACGGG
CAGGGGNNNGGCGAGGGGGCGGCTGAGTGGGGGCGCTGACCCGCTCCAGGTCTCGGGG
CCCGGTGGCCGCTGTGCGCGCCAGCTCGCGCTCCGTCGAGTTCTTCTGTGCGGCCGG
CGCCGGGCGCGCAGCAGCGTGTGCCCGCAAGGTGGCCAGGCGCGCGAGAAGCGCTTC
ACTTTTGTGCTGGCTGTGGTTCATGGGTGTTCGTGCTCTGCTGGTCCCTTCTTCTTC
AGCTACAGCCTGTACGGCATCTGCCGAGGCTGCCAGGTGCCGGCCGCTCTTCAAG
TTCTTCTTGGATCGGCTACTGCAACAGCTCGTCAACCCGGTATCTACACGGTCTTC
AACCAGGATTTCCGCGATCCTTTAAGCACATCCTCTTCCGACGAGGAGAAGGGGCTTC
AGGCAGTGA
    
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Clone variation with respect to NM_000683.3
 933 g=>c;968 c=>n;969 g=>n;974 c=>a;1015 c=>t;1167 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000683 unedited

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TTTTTTTGAGGCTATAGGGCGGCCGGAATTCGCCCTTCCGCGGGAGGACCATGGCGTCC
CCGGCGCTGGCGGCGGCGCTGGCGGTGGCGGCAGCGGGGGCCCAATGCGAGCGGCGCG
GGCGAGAGGGGCAGCGGCGGGGTTGCCAATGCCTCGGGGGCTTCCTGGGGCCCGCCGCG
GGCCAGTACTCGCGGGCGCGGTGGCAGGGCTGGCTGCCGTGGTGGGCTTCTCATCGTC
TTCACCGTGGTGGCAACGTGCTGGTGGTATCGCCGTGCTGACCAGCCGGGCGCTGCGC
GCGCCACAGAACCTTCTGTTGTCGCTGGCCTCGGCCGACATCCTGGTGGCCACGCTG
GTCATGCCCTTCTCGTTGGCCCAACGAGCTCATGGCCTACTGGTACTTCGGGCAGGTGTG
GTGCGGCGTGTACCTGGCGCTCGATGTGCTGTTTTGCACCTCGTCGATCGTGCATCTGTG
TGCCATCAGCCTGGACCCTACTGGTGGTGACGCANGCCGTGAGTACAACCTGAAGCG
CACACCACGCCGCTCAAGGCCACCATCGTGGCCGTGGCTCATCTCGGCCGTATCTC
TTCCCGCCGCTGGTCTCGCTCTACCGCCAGCCGACGGCGCCGCTACCCGAGTGGCG
CCTCAACGACGAGACCTGGTACATCCTGTCTCCTGCTCGGCTCCTTCTTCCGCGCCCTG
CCTCATCATGGCCTGGTCTACGCGCGCATCTACCGAGTGGN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000683 unedited AACTTCCAGGCCAGGAGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTT CAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTTTTTTTTTTTTTAAATACCAAGG GTTAATTAATAAATAATTTGGTTGGTTTGGCCGGTGGTTTTGGCAAACATTTAAATACCT TCAGTAATCAAAGAATGGCCGTGCCTTCTCCTTGGCCCCGTCAGCCACCCCGACTAG GTCCCCGAAAAATCAACCCTTGGTCAAACCGGGATGGGAGTGGTAATGTGTTTTGGGGG CCCCCTGGCTGCCAATTAAGGGGCCACCTCTGGCACTGGTCTCTAAAACCTGAACTTA CAACCACCCCTCGCAAGGGCTCCAAAAGTGGATCCCAGCGCGGAACCCCAAAACCACC CCCTGCTGAAGGGGAAGGCCAAAGGGTCTTCCCTCTTTTCTTCCCAATTCCTGGAACC CGGCGATTCTCTGCCAACTTCTGGCCTGGCGCAACCTTCCCTGGGCCCTGGAAGCCAA ACCATCCCCCGTCTTTGGAGAAGCCCCCGTCCCTGGGAAAAGCCCCCGGTCCGGGC CCGCCCTTCGGCAACCCCAAGGCGGAACTTGCCAAAAGATCCAGAAGGGGGCGAGA CAAGGCCTAAACCCTTTCTCCGGCGAAAAGAGAGTGCCTAAGAATCCCGAAAACC CTGTTGAAAACCGGTAAGAACCGGTTGAACAACTGTCCAAC
Restriction Sites:	Please inquire
ACCN:	NM_000683
Insert Size:	2000 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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:	<ol style="list-style-type: none"> 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.
RefSeq:	NM_000683.3 , NP_000674.2
RefSeq Size:	1958 bp
RefSeq ORF:	1389 bp
Locus ID:	152

UniProt ID:	P18825
Cytogenetics:	4p16.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. The mouse studies revealed that both the alpha2A and alpha2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons. The alpha2A subtype inhibited transmitter release at high stimulation frequencies, whereas the alpha2C subtype modulated neurotransmission at lower levels of nerve activity. This gene encodes the alpha2C subtype, which contains no introns in either its coding or untranslated sequences. [provided by RefSeq, Jul 2008]</p>