

Product datasheet for **SC309441**

alpha 1a Adrenergic Receptor (ADRA1A) (NM_033303) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1a Adrenergic Receptor (ADRA1A) (NM_033303) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADRA1A
Synonyms:	ADRA1C; ADRA1L1; ALPHA1AAR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_033303 edited
 GGGACCATGGTGTCTCTCGGGAAATGCTTCCGACAGCTCCAACCTGCACCCAACCGCCG
 GCACCGGTGAACATTTCCAAGGCCATTCTGCTCGGGGTGATCTTGGGGGGCCTATTCTT
 TTCGGGGTGTGGGTAACATCCTAGTGATCCTCTCCGTAGCCTGTCAACGACACCTGCAC
 TCAGTCACGCACTACTACATCGTCAACCTGGCGGTGGCCGACCTCCTGCTCACCTCCACG
 GTGCTGCCCTTCTCCGCCATCTTCGAGGTCCTAGGCTACTGGCCTTCGGCAGGGTCTTC
 TGCAACATCTGGCGCGCAGTGGATGTGCTGTGCTGCACCCGCGTCCATCATGGCCCTGTC
 ATCATCTCCATCGACCGCTACATCGGCGTGAGCTACCCGCTGCGCTACCCAACCATCGTC
 ACCCAGAGGAGGGTCTCATGGCTCTGCTCTGCGTCTGGGCACTCTCCCTGGTATATCC
 ATTGGACCCTGTTCGGCTGGAGGCAGCCGGCCCCGAGGACGAGACCATCTGCCAGATC
 AACGAGGAGCCGGGTACGCGCTTCTCAGCGCTGGGCTCCTTCTACCTGCCTCTGGCC
 ATCATCTGGTATGTAAGTCCGCGTCTACGTGGTGGCCAAGAGGGAGAGCCGGGGCCTC
 AAGTCTGGCCTCAAGACCGACAAGTCGGACTCGGAGCAAGTGACGCTCCGCATCCATCGG
 AAAACGCCCCGGCAGGAGGCAGCGGGATGGCCAGCGCCAAGACCAAGACGCACTTCTCA
 GTGAGGCTCCTCAAGTTCTCCCGGAGAAGAAAGCGGCCAAAACGCTGGGCATCGTGGTC
 GGCTGCTTCGTCCTCTGCTGGCTGCCTTTTTTCTTAGTCATGCCATTGGGTCTTTCTTC
 CCTGATTTCAAGCCCTCTGAAACAGTTTTTAAAATAGTATTTTGGCTCGGATATCTAAAC
 AGCTGCATCAACCCCATCATATACCCATGCTCCAGCCAAGAGTTCAAAAAGGCCTTTCAG
 AATGTCTTGAGAAATCCAGTGTCTCCGCAGAAAGCAGTCTTCCAAACATGCCCTGGGCTAC
 ACCCTGCACCCGCCAGCCAGGCCGTGGAAGGGCAACACAAGGACATGGTGCATCCCC
 GTGGGATCAAGAGAGACCTTCTACAGGATCTCCAAGACGATGGCGTTTGTGAATGGAAA
 TTTTTCTTTCCATGCCCGTGGATCTGCCAGGATTACAGTGTCCAAAGACCAATCCTCC
 TGTACCACAGCCCGGACGAAGTCTCGCTCTGTCAACAGGCTGGAGTGCAGTGGCATGATC
 TTGGCTCACTGCAACCTCCGCCTCCCGGTTCAAGAGATTCTCCTGCCTCAGCCTCCCAA
 GCAGCTGGGACTACAGGGATGTGCCACCAGGCCAGCCACCAGGCCAGCTAATTTTTTG
 TATTTTTAGTAGAGACGGGGTTTACCATGTTGGCCAGGATGATCTCGATCTCTTGACCT
 CATGATCTGCCTGCCTCAGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACCGTGCC
 CGGCCCAACTATTTTTTTTTTTTATCTTTTTTAACAGTGAATCCTTTCTGTGGATGAAA
 TCTTGCTCAGAAGCTCAATATGCAAAAAGAAAGAAAAACAGCAGGGCTGGACGGATGTTGG
 GAGTGGGGTAAGACCCCAACCACTCAGAACCCACCCCAACACACACACATTCTCTC
 CATGGTACTGGTGGGGCCTCTAGAGGTACATAGTACACCATGGAGCACGGTTTAAG
 CACCACTGGACTACACATTCTTCTGTGGCAGTTATCTTACCTTCCATAGACACCCAGCC
 CATAGCCATTGGTTAATAAAGGTTGTCCAAATGAGAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_033303

Insert Size: 1900 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).

OTI Annotation: It is not a variant.

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_033303.2 , NP_150646.2
RefSeq Size:	2304 bp
RefSeq ORF:	1428 bp
Locus ID:	148
UniProt ID:	P35348
Cytogenetics:	8p21.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction
Gene Summary:	<p>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-1A-adrenergic receptor. Alternative splicing of this gene generates four transcript variants, which encode four different isoforms with distinct C-termini but having similar ligand binding properties. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) includes an alternate 3' terminal exon, compared to variant 3. It encodes isoform 2, which has a longer and distinct C-terminus, compared to isoform 3.</p>