

Product datasheet for **SC108910**

alpha 1a Adrenergic Receptor (ADRA1A) (NM_000680) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: alpha 1a Adrenergic Receptor (ADRA1A) (NM_000680) Human Untagged Clone
Tag: Tag Free
Symbol: alpha 1a Adrenergic Receptor
Synonyms: ADRA1C; ADRA1L1; ALPHA1AAR
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000680, RT-PCR generated
ATGGTGTCTCTCGGAAATGCTTCCGACAGCTCCAACCTGCACCCAACCGCCGGCACCG
GTGAACATTTCCAAGCCATTCTGCTCGGGTGATCTTGGGGGGCCTCATTCTTTTCGGG
GTGCTGGGTAACATCCTAGTGATCCTCTCCGTAGCCTGTACCGACACCTGCACTCAGTC
ACGCACTACTACATCGTCAACCTGGCGGTGGCCGACCTCCTGCTCACCTCCACGGTGCTG
CCCTTCTCGCCATCTTCGAGGTCCTAGGCTACTGGCCTTCGGCAGGGTCTTCTGCAAC
ATCTGGGCGGCAGTGGATGTGCTGTGCTGCACCGCTCCATCATGGGCCTCTGCATCATC
TCCATCGACCGCTACATCGGCGTGAGCTACCCGCTGCGCTACCCAACCATCGTCACCCAG
AGGAGGGGTCTCATGGCTCTGCTCTGCGTCTGGCACTCTCCCTGGTCATATCCATTGGA
CCCCTGTTTCGGCTGGAGGACGCGCCCGCCGAGGACGAGACCATCTGCCAGATCAACGAG
GAGCCGGGCTACGCGCTTCTCAGCGCTGGGCTCCTTCTACCTGCCTCTGGCCATCATC
CTGGTCATGTACTGCCGGTCTACGTGGTGGCAAGAGGGAGAGCCGGGGCCTCAAGTCT
GGCCTCAAGACCGACAAGTCGGACTCGGAGCAAGTGACGCTCCGCATCCATCGGAAAAAC
GCCCCGGCAGGAGGCAGCGGGATGGCCAGCGCCAAGACCAAGACGCACTTCTCAGTGAGG
CTCCTCAAGTTCTCCCGGAGAAGAAAGCGGCCAAAACGCTGGGCATCGTGGTTCGGCTGC
TTGCTCCTCTGCTGGCTGCCTTTTTTCTTAGTCATGCCATTGGGTCTTCTTCCCTGAT
TTCAAGCCCTCTGAAACAGTTTTTAAAAATAGTATTTTGGCTCGGATATCTAAACAGCTGC
ATCAACCCCATCATATACCCATGCTCCAGCCAAGAGTTCAAAAAGGCCTTTCAGAATGTC
TTGAGAATCCAGTGTCTCCGACAGAAAGCAGTCTTCCAACATGGCCTGGGCTACACCCG
CACCCGCCCAGCCAGGCGTGGAAAGGCAACACAAGGACATGGTGCGCATCCCCGTGGGA
TCAAGAGAGACCTTCTACAGGATCTCCAAGACGGATGGCGTTTGTGAATGGAAATTTTTTC
TCTTCCATGCCCGTGGATCTGCCAGGATTACAGTGTCCTAAAGACCAATCCTCCTGTACC
ACAGCCCGGGTGAGAAGTAAAAGCTTTTTGCAGGTCTGCTGTGTAGGGCCCTCAACC
CCCAGCCTTGACAAGAACCATCAAGTTCCAACCATTAAGGTCCACACCATCTCCCTCAGT
GAGAACGGGGAGGAAGTCTAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000680 unedited</p> <pre>CCTTGGATTTGTAACGACTTATATAGGCGGCCCGCCACTGTGATGGGTATCTGCAGAATT CGGCTTTGGGACCATGGTGTCTCTCGGGAAAGCTTCCGACAGCTCCAAGTGCACCCAA CCGCCGGCACCAGTGAACATTTCCAAGGCCATTCTGCTCGGGGTGATCTTGGGGGCTC ATTCTTTTCGGGTGCTGGGTAACATCCTATTGATCCTCTCCGTAGCCTGTCACCGACAC CTGCACTCAGTCACGCACTACTACATCGTCAACCTGGCGGTGGCCGACCTCCTGCTCACC TCCACGGTGTGCCCTTCTCCGCCATCTTCGAGGTCTTAGGCTACTGGCCTTCGGCAGG GTCTTCTGCAACATCTGGCGGCAGTGGATGTGCTGTGCTGCACCGCTCCATCATGGGC CTCTGCATCATCTCCATCGACCGTACATCGGCGTGAGCTACCCGCTGCGCTACCCAACC ATCGTACCCAGAGGAGGGTCTCATGGCTCTGCTCTGCGTCTGGGCACTCTCCCTGGTC ATATCCATTGGACCCCTGTTCCGGCTGGAGGCAGCCGCCCGGAGGACGAGACCATCTGC CAGATCAACGAGGAGCCGGGCTACGCGCTTCTCAGCGCTGGGCTCTTCTACCTGCTC CTGGCCATCATCTGGTGTACTGCTGCGCTCTACGTGGTGGCCAAAGAGGAGAGCCGG GGCCTCAAGTCTGGCCTCAGACCGACCAGNNTCGACTCGGAGCAGTGACGCTCCGCATCC ATCGGAAAACGCCCCGAGGGAGCAGCGGGATGGCCAGCGCCNAGACCAGACGCACTTC TCAGTGAGGCTCCCTCAGTTCTCCCGGAGAAGAAAAGCGCCANACGCTGGCATCGTGGN TCGCTGCTTCGCTCTGCTGGCTGGCTTTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000680 unedited</p> <pre>NCGACAANCTTGATATCGGTACCGAGCTCGGATCCACTAGTAACGGCCGCATGTGCTGG AATTCCGCTTTCCTGTCTAGACTTCTCCCGTTCTCACTGAGGGAGATGGTGTGGACC TTAATGGTTGAACTTGATGGTTCTTGCAAGGCTGGGGTTGAGGGCCACACAGCAG CAGACCTGCAAAAAGCTTTACTTCTCACCCGGGCTGTGGTACAGGAGGATTGGTCTTTG GACACTGTAATCCTGGCAGATCCACGGGCATGGAAGAGAAAAATTTCCATTACAAAACG CCATCCGTCTTGAGATCCTGTAGAAGTCTCTTGTATCCACGGGGATGCGCACCATG TCCTTGTGTTGCCCTTCCACGGCCTGGCTGGGCGGGTGCAGGGTGTAGCCAGGGCATGT TTGGAAGACTGCTTTCTGCGGAGACTGGATTCTCAAGACATTTGAAAGGCCTTTTTG AACTCTTGGCTGGAGCATGGGTATATGATGGGGTTGATGCAGCTGTTTAGATATCCGAGC CAAAATACTATTTAAAAACTGTTTCAGAGGGCTTGATATCAGGGAAGAAAGACCCAATG GGCATGACTAAGAAAAAGGCAGCCAGCAGAGGACGAAGCAGCCGACCACGATGCCACAG GTTTTGGCCGCTTCTTCTCCCGGGAAGTGGANGAGCCTCACTGAGAAGTGCGTCTTG GTCTTGGCGCTGCCATCCNGCTGCCTNCTGCCGGGCGTTTTTCCGATGGATGCGGAGC GTCACCTTGCTTCGAGTCCGACTTGTTCTGCTTGTAGGCCAGACTTGAGGGCCCGGCTCC CTCTTGGCACCGTAAACGCGCG</pre>
Restriction Sites:	Please inquire
ACCN:	NM_000680
Insert Size:	1600 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).

Reconstitution Method:

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_000680.1](#), [NP_000671.1](#)

RefSeq Size: 2290 bp

RefSeq ORF: 1401 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: 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]
Transcript Variant: This variant (1) is alternatively spliced in the 3' end, compared to variant 3. It encodes isoform 1, which has a longer and distinct C-terminus compared to isoform 3.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.