

Product datasheet for **SC215098**

alpha 2a Adrenergic Receptor (ADRA2A) (NM_000681) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	alpha 2a Adrenergic Receptor (ADRA2A) (NM_000681) Human 3' UTR Clone
Symbol:	alpha 2a Adrenergic Receptor
Synonyms:	ADRA2; ADRA2R; ADRAR; ALPHA2AAR; ZNF32
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000681
Insert Size:	1543 bp



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Insert Sequence: >SC215098 3'UTR clone of NM_000681
 The sequence shown below is from the reference sequence of NM_000681. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TGTCTGGGGGACAGGAAGCGGATCGTGTAGGTTTCCGCTGGCGCCCGCTAGACTCACGCTGACTGCA
GGCAGCGGGGGCATCGAGGGTCTTAGCCCCAGGGCACTCAGAAACCCGGGCGCTGCCTGCTCTGCG
TTTCTCGTCTGGGGTGGCTCTGCAGCCTCTGCGGGCGGGCGTCTGCTGCTCTACAAGGGAAGCTTC
TTGCTGCCAGGCCACACATCCCAGTTGTTGGTTTGGCCACTCTTGACCTGGAGCCATCTTCTAGTG
GGCCACCCTAATCACTATTGCTTCTAAAGGTATTTTACCCTCTTCGCTGGTACAGCCCTCACAGC
TCTTCAGAGCAAGCACTGGACTACAAGGGCATGGCTCACAAAAGTTAATGGATGGGGTACCTAGCC
CTGGCTAATCCCTTCCATTCCCAACTCTCTCTCTTTTTAAAGAAAATGCTAAGGGCAGCCCTGC
CTGCCCTCCCATCCCCGCTGTAATATACACTATTTTTGATAGCACACATGGGGCCCCATATCTCT
TGGCCTTGGTTTTGATGTTGAAATCCTGGCCTTGGGAGAGATGCCTTCCAGGCAGACACAGCTGTCTGG
TTCAGGCCAAGCCCTTTGCAATGCAAGCCCTTCTGGTGTATGAAGTCCCTCTATGTCGTGTTTTTC
ACCAGCAACTGGTGACTGTCCTTTCGACACGGACTGCTTTGAGATTTCTGACAGGGAAAAGATTTCT
GTCCATTTTTTCTGTGCCTAACAGCATAATTGCCTTTTCTATGTAATATTATGATGGTGGATCAA
GACATAAGTAAATGAGCCTTCTGCCTCACATCAGCCCTGTGTATAAAGCCATTATTCTCTGATGCACT
GTTTGGCCAGTAACTCACTTTAAAACCTCTTTCCAGTGTTCCTCTCCTCCAGGGCCACTGCT
TGAAGAAGAATATGTATGTTTCTATCTTGATGCTGTGTGCCCTCCTGCCCGAAAAGTGCTGACTAT
GGGAAAATCTTTAGCTGCTGTTTTAGACTCCAAGGAGTGGAATTATGTGGAAGAAGCAAACCTGAT
ACAATTTGCCCAAGGTAACAGTTTAAAAGACAATGGGCTGCCAACTGTACAGTTTCTTCCCAA
GAGCTGTAGGTATCAAATGTTGTCCTTCCCCCTCCGTGCTTTTCTGGTTGAGATCATGTCATTGA
TGAAGTGCCAAAGTCAGGGGAGGAGGGCAGAGACTTTGTGTTTACATCTGCATTTCTACATGTTTTAGA
CAGAGACAATTTAAGGCCTGCACCTTATTTCACTAAAGAAAACTAATGTCAGCACATGTTGCTAATG
ACAGTGGATTTTTTTTAAATAAAAAAGTTTACAGATCAAATGTGAAATAAATATGAATGGAGTGGTCC
TCTTGTCTGTTATCTGAGTTTTCAAAGCTTTAAGACTCTGGGAACATCTGATTTTATGGATTTTTTAA
AAATAAAAAATGTACATTATAAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: Sgfl-Mlul

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_000681.4](#)

Summary:

Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. The alpha-2-adrenergic receptors are a type of adrenergic receptors (for adrenaline or epinephrine), which inhibit adenylate cyclase. These receptors include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. They are involved in regulating the release of neurotransmitter molecules from sympathetic nerves and from adrenergic neurons in the central nervous system. The sympathetic nervous system regulates cardiovascular function by activating adrenergic receptors in the heart, blood vessels and kidney. Studies in mouse revealed that both the alpha2A and alpha2C receptor subtypes were required for presynaptic transmitter release from the sympathetic nervous system in the heart and from central noradrenergic neurons. The alpha-2-adrenergic receptors are also involved in catecholamine signaling by extracellular regulated protein kinase 1 and 2 (ERK1/2) pathways. A clear association between the alpha-2-adrenergic receptor and disease has not been yet established. [provided by RefSeq, Sep 2019]

Locus ID:

150

MW:

58.1