

Product datasheet for **RG220495**

alpha 1a Adrenergic Receptor (ADRA1A) (NM_033303) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1a Adrenergic Receptor (ADRA1A) (NM_033303) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADRA1A
Synonyms:	ADRA1C; ADRA1L1; ALPHA1AAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220495 representing NM_033303
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGTTCCTCTCGGAAATGCTTCCGACAGCTCCAACCTGCACCAACCGCCGGCACCGGTGAACATTT
 CCAAGGCCATTCTGCTCGGGGTGATCTTGGGGGCCTCATTCTTTTCGGGGTGTGGGTAACATCCTAGT
 GATCCTCTCCGTAGCCTGTCAACGACACCTGCACTCAGTCACGCACTACTACATCGTCAACCTGGCGGTG
 GCCGACCTCCTGCTCACCTCCACGGTGTGCCCTTCTCGCCATCTTCGAGGTCCTAGGCTACTGGGCT
 TCGGCAGGGTCTTCTGCAACATCTGGCGGCAGTGGATGTGCTGTGCTGCACCGCTCCATCATGGGCT
 CTGCATCATCTCCATCGACCGCTACATCGGCGTGAGCTACCCGCTGCGCTACCAACCATCGTCAACCGAG
 AGGAGGGTCTCATGGCTCTGCTCTGCTCTGGGCACTCTCCCTGGTCATATCCATTGGACCCCTGTTG
 GCTGGAGGCAGCCGGCCCCGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTT
 CTCAGCGTGGGCTCCTTCTACCTGCCTCTGGCCATCATCTGGTCATGTACTGCCGCTCTACGTGGT
 GCCAAGAGGGAGAGCCGGGGCTCAAGTCTGGCCCAAGACCGACAAGTCGGACTCGGAGCAAGTGACGC
 TCCGCATCCATCGAAAAACGCCCGGCAGGAGGCAAGCGGGATGGCCAGCGCCAAGACCAAGACGCACTT
 CTCAGTGAGGCTCCTCAAGTCTCCCGGAGAAGAAAGCGGCCAAAACGCTGGGCATCGTGGTCCGCTGC
 TTCGCTCTGCTGGCTGCCTTTTTTCTTAGTCATGCCATTGGGCTTTTCTTCCCTGATTTCAAGCCCT
 CTGAAACAGTTTTTAAATAGTATTTGGCTCGGATATCTAAACAGCTGCATCAACCCATCATATACCC
 ATGCTCCAGCCAAGATTCAAAAGGCCTTTTCAGAAATGTCTTGAGAATCCAGTGTCTCCGCAGAAAGCAG
 TCTTCAAACATGCCCTGGGCTACACCTGCACCCGCCAGCCAGGCCGTTGGAAGGGCAACAAGGACA
 TGGTGGCATCCCGTGGGATCAAGAGAGACCTTCTACAGGATCTCCAAGACGGATGGCGTTTGTGATG
 GAAATTTTTCTCTTCCATGCCCGTGGATCTGCCAGGATTACAGTGTCCAAGACCAATCCTCCTGTACC
 ACAGCCCGGACGAAGTCTCGCTCTGTCAACAGGCTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACC
 TCCGCTCCCGGGTTCAAGAGATTCTCCTGCCTCAGCCTCCAAGCAGCTGGGACTACAGGGATGTGCCA
 CCAGGCCGACGCCACCAGGCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220495 representing NM_033303
 Red=Cloning site Green=Tags(s)

MVFLSGNASDSSNCTQPPAPVNIKAILLGVILGGLILFGVLGNILVILSVACHRHLHVSHTYIYVNLAV
 ADLLLSTVLPFSAIFEVLGYWAFGRVFCNIWAAVDVLCTASIMGLCIISIDRYIGVSYPLRYPTIVTQ
 RRGLMALLCVWALSLVISIGPLFGWRQPAPEDETICQINEEPGYVLFALGSAFYLPALAIILVMYCRVYVV
 AKRESRGLKSGLTKDSDSEQVTLRIHRKNAPAGGSGMASAKTKTHFSVRLKFSREKKAATLGIIVVGC
 FVLCWLPFFLVMPISFFPDFKPSSETVFKIVFWLGYLNSCINPIIYPCSSQEFKKAFQNVLRIQCLRRKQ
 SSKHALGYTLHPPSQAVEGQHKDMVRIPVGSRETFYRISKTDGVCEWKFSSMPRGSARITVSKDQSSCT
 TARTKRSVTRLECSGMILAHCNLRLPGSRDASPASQAAGTTGMCHQADATRPS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	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]