

## Product datasheet for **RC213253**

### alpha 1a Adrenergic Receptor (ADRA1A) (NM\_033302) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1a Adrenergic Receptor (ADRA1A) (NM_033302) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	alpha 1a Adrenergic Receptor
Synonyms:	ADRA1C; ADRA1L1; ALPHA1AAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC213253 representing NM\_033302  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGTTCCTCTCGGAAATGCTTCCGACAGCTCCAACCTGCACCAACCGCCGGCACCGGTGAACATTT  
 CCAAGGCCATTCTGCTCGGGGTGATCTTGGGGGGCCTCATTCTTTTCGGGGTGTGGGTAACATCCTAGT  
 GATCCTCTCCGTAGCCTGTCAACGACACCTGCACTCAGTCACGCACTACTACATCGTCAACCTGGCGGTG  
 GCCGACCTCCTGCTCACCTCCACGGTGTGCCCTTCTCGCCATCTTCGAGGTCCTAGGCTACTGGGCTT  
 TCGGCAGGGTCTTCTGCAACATCTGGCGGCAGTGGATGTGCTGTGCTGCACCGCTCCATCATGGGCTT  
 CTGCATCATCTCCATCGACCGCTACATCGGCGTGAGCTACCCGCTGCGCTACCAACCATCGTCAACCCAG  
 AGGAGGGGTCTCATGGCTCTGCTCTGCTCTGGGCACTCTCCCTGGTCATATCCATTGGACCCCTGTTTCG  
 GCTGGAGGCAGCCGGCCCCGAGGACGAGACCATCTGCCAGATCAACGAGGAGCCGGGCTACGTGCTCTT  
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 GCCAAGAGGGAGACCCGGGCTCAAGTCTGGCCTCAAGACCGACAAGTCGGACTCGGAGCAAGTGACGC  
 TCCGATCCATCGAAAAACGCCCGGCAGGAGGCAAGGATGGCCAGCGCAAGACCAAGACGCACTT  
 CTCAGTGAGGCTCCTCAAGTCTCCCGGAGAAGAAAGCGGCCAAAACGCTGGGCATCGTGGTCCGGCTGC  
 TTCGCTCTGCTGGCTGCCTTTTTTCTTAGTCATGCCATTGGGCTTTTCTTCCCTGATTTCAAGCCCT  
 CTGAAACAGTTTTTAAATAGTATTTGGCTCGGATATCTAAACAGCTGCATCAACCCATCATATACCC  
 ATGCTCCAGCCAAGATTCAAAAAGGCTTTTCAAGATGTCTTGAAGTCCAGTGTCTCTGCAGAAAGCAG  
 TCTTCAAACATGCCCTGGGCTACACCTGCACCCGCCAGCCAGGCCGTGGAAGGGCAACAAGGACA  
 TGGTGCGCATCCCGTGGGATCAAGAGAGACCTTCTACAGGATCTCCAAGACGGATGGCGTTTGTGATG  
 GAAATTTTCTTCCATGCCCGTGGATCTGCCAGGATTACAGTGTCCAAGACCAATCCTCTGTACC  
 ACAGCCGGGACACACCCATGACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC213253 representing NM\_033302  
 Red=Cloning site Green=Tags(s)

MVFLSGNASDSSNCTQPPAPVNISKAILLGVILGGLILFGVLGNILVILSVACHRHLHVSHTYIYNLAV  
 ADLLLSTVLPFSAIFEVLGYWAFGRVFCNIWAAVDVLCCTASIMGLCIISIDRYIGVSYPLRYPTIVTQ  
 RRGLMALLCVWALSLSISIGPLFGWRQPAPEDETICQINEEPGYVLFALGSFYPLAIILVMYCRVYVV  
 AKRESRGLKSGLKTDKSDSEQVTLRIHRKNAPAGGSGMASAKTKTHFSVRLKFSREKKAATLGIIVGC  
 FVLCWLPFFLVMPIGSFFPDFKPSSETVFKIVFWLGYLNSCINPIIYPCSSQEFKAFQNLRIQCLCRKQ  
 SSKHALGYTLHPPSQAVEGQHKDMVRIPVGSRETFYRISKTDGVCEWKFSSMPRGSARITVSKDQSSCT  
 TARGHTPMT

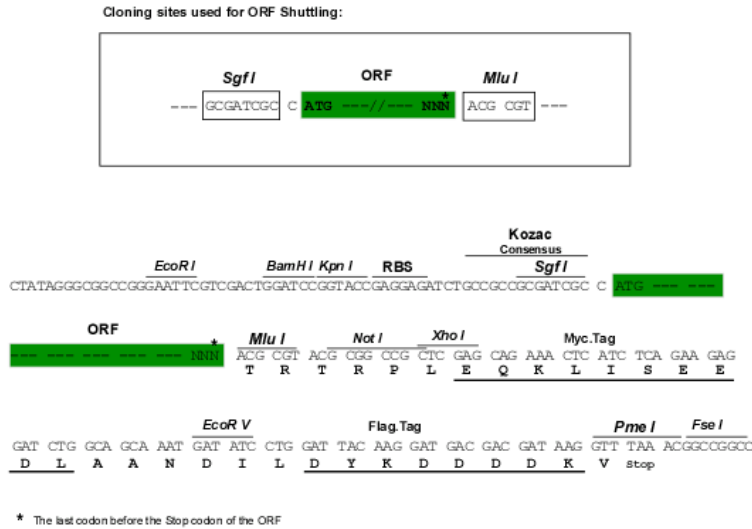
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8059\\_c04.zip](https://cdn.origene.com/chromatograms/mk8059_c04.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_033302

**ORF Size:** 1287 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_033302.3](#)

**RefSeq Size:** 2089 bp

**RefSeq ORF:** 1290 bp

**Locus ID:** 148

**UniProt ID:** [P35348](#)

**Cytogenetics:** 8p21.2

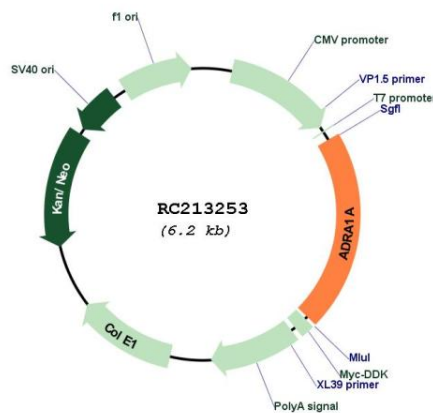
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction

**MW:** 47.3 kDa

**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]

**Product images:**



Circular map for RC213253