

## Product datasheet for **RR207253**

### Adra2a (NM\_012739) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adra2a (NM_012739) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adra2a
Synonyms:	CA2-47; RATRG20; RG20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR207253 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCCGCCAGGAGCAGCCGCTGGCCGAGGGCAGCTTTGCGCCATGGGCTCCCTGCAGCCGGATGCCG  
 GCAATAGCAGCTGGAACGGCACCGAGGGCGCCGAGGGCGCACCCGGGCCACCCCTACTCCCTGCAGGT  
 GACGCTGACGCTGGTGTGCCTGGCTGGCCTGCTCATGCTGTTACCGTGTTGGCAACGTGCTGTTATT  
 ATCGCAGTGTTACCAGCCGCGCCTCAAAGCGCCCAAGAACCTTCTCCTGGTGTCTCTGGCCTCAGCGG  
 ACATCCTGGTGGCCACGCTGGTCATTCCCTTTTCTTTGGCCAACGAGTTATGGGCTACTGGTACTTTGG  
 TAAGGTGTGGTGCAGATCTACTTGGCCCTCGACGTGCTTTTTGCACGTGCTCCATAGTGCACCTGTGC  
 GCCATCAGCCTTGACCGCTACTGGTCCATCACGAGGCCATCGAGTACAACCTGAAGCGCACGCCGCGG  
 GCATCAAGGCCATCATTGCACTGTGTGGTCACTCGGCCGTCACTCCTTCCCGCCACTCATCTCCAT  
 AGAGAAGAAGGGCGCTGGCGGCGGCAGCAGCCGCGCCGAGCCGAGCTGCAAGATTAACGACCAGAAGTGG  
 TATGTCATCTCGTCGTCATCGGCTCCTTCTTCGCGCCTTGCCCTCATCATGATCCTGGTCTACGTGCGTA  
 TCTACCAGATCGCCAAGCGTCGCACCCGCGTGCGCCCCAGTCGCCGGGGTCCGGACGCCTGTTCCCGGCC  
 GCCGGGGGGCGCGATCGCAGGCCAACGGGCTGGGCCCGGAGCGCGGCGCTGGTACCGCGGGCGCGGAG  
 GCCGAGCCGCTGCCACCCAGCTTAACGGCGCCCGGGGGAGCCCGGCCACCCGGCCGCGCAGCGGGG  
 ATGCGCTGGACCTAGAGGAGAGTTTCGTGTCGAGCACGCCGAGCGGCCCCAGGGGCCGGCAAACCCGA  
 GCGCGTCCCGGGCCAAGGGCAAGACCAAGGCGAGCCAGGTGAAACCGGGGACAGTCTGCCGCGGCGC  
 GGGCCCGGGCTGCGGGGCCGGGGCTTCGGGTCCGGGACGGGAGAGGAGCGTCCCGGGGGCGCAAAG  
 CGTCGCGCTGGCGGGGAGGAGAACCGGAGAAACGCTTACGTTCTGTGCTGGCGGTGGTATCGCGT  
 GTTCGTGGTGTGTTGGTTCCCGTCTTTTTTACCTACACGCTCATAGCGGTGCGCTGCCCGGTGCCCTAC  
 CAGCTCTCAACTTCTTCTGTTTCCGCTACTGCAACAGCTCGCTGAACCCTGTTATCTACACCATTT  
 TCAACCACGACTTCGCCCGCCTTCAAGAAGATCCTCTGCCGTGGGGACAGAAAGCGCATCGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR207253 protein sequence  
 Red=Cloning site Green=Tags(s)

MFRQEQLAEGSFAPMGSQPDAGNSSWNGTEAPGGGTRATPYSLQVTLTLVCLAGLLMLFTVFGNVLVI  
 IAVFTSRALKAPQNLFLVSLASADILVATLVIPFSLANEVMGYWYFGKVVCEIYLALDVLCTSSIVHLC  
 AISLDRYWSITQAIEYNLKRTPRRIKAIIVTVWVISAVISFPPLISIEKKGAGGGQPAEPSCKINDQKW  
 YVIVSSSIGSFFAPCLIMILVYVRIYQIAKRRTRVPPSRRRGPDACSAPPGADRRPNGLGPERGAGTAGAE  
 AEPLPTQLNGAPGEPAPTRPRDGDALDLEESSSEHAERPQGPGRPERGPRAKGTKASQVKPGDSLPRR  
 GPGAAGPGASGSGQGEERAGGAKASRWRGRQNRKRFVFLAVVIGVFVVCWFPFFFTYTLIAVGCPVPY  
 QLFNFFFWFGYCNSSLNPVIYTIFFNHDFRRAFKILCRGDRKRIV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_012739

**ORF Size:** 1395 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\\_012739.3](#), [NP\\_036871.3](#)

**RefSeq Size:** 2814 bp

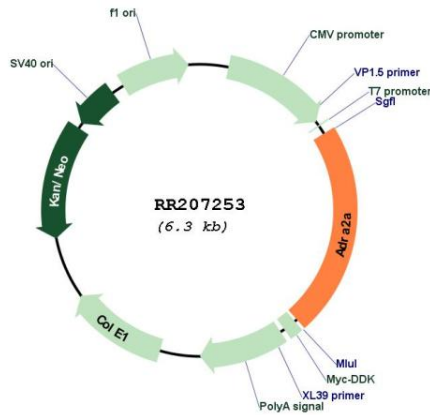
**RefSeq ORF:** 1398 bp

**Locus ID:** 25083

**UniProt ID:** [P22909](#)

**Cytogenetics:** 1q55  
**MW:** 50.6 kDa  
**Gene Summary:** Alpha-2 adrenergic receptors mediate the catecholamine-induced inhibition of adenylate cyclase through the action of G proteins.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RR207253