

## Product datasheet for **RN207253**

### **Adra2a (NM\_012739) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Adra2a (NM_012739) Rat Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >RN207253 representing NM\_012739  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCTCCCTGCAGCCGGATGCCGCAATAGCAGCTGGAACGGCACCGAGGCGCCGGAGCGGCACCC  
GGGCCACCCCTTACTCCCTGCAGGTGACGCTGACGCTGGTGTGCCTGGCTGGCCTGCTCATGCTGTTTAC  
CGTGTGGCAACGTGCTGGTTATTATCGCAGTGTTCACCAGCCGCGCTCAAAGCGCCCCAGAACCTC  
TTCCTGGTGTCTCGGCCTCAGCGGACATCCTGGTGGCCACGCTGGTCATTCCCTTTTCTTTGGCCAACG  
AGGTTATGGGCTACTGGTACTTTGGTAAGGTGTGGTGGCAGATCTACTTGGCCCTCGACGTGCTTTTTG  
CACGTCGTCCATAGTGACCTGTGCGCCATCAGCCTTGACCGCTACTGGTCCATCACGCAGGCCATCGAG  
TACAACCTGAAGCGCACGCCGCGCGCATCAAGGCCATCATTGTCCTGTGTGGGTATCTCGGCCGTC  
TCTCCTCCCGCCACTCATCTCCATAGAGAAGAAGGGCGCTGGCGCGGGCAGCAGCCGGCCGAGCCGAG  
CTGCAAGATTAACGACCAGAAGTGGTATGTCATCTCGTCGTCCATCGGCTCCTTCTCGCGCCTTGCCCT  
ATCATGATCCTGGTCTAGTGTGCTATCTACCAGATCGCCAAGCGTCGCACCCGCGTGCAGCCAGTCCGCC  
GGGGTCCGGACGCTGTTCCGCGCCGCCGGGGGCGCCGATCGCAGGCCAACGGGCTGGGCCCGGAGCG  
CGGCGCTGGTACCGCGGGCGCGGAGGCCGAGCCGCTGCCACCCAGCTTAACGGCGCCCCGGGGAGCCC  
GCGCCACCCGGCCGCGCAGCGGGATGCGCTGGACCTAGAGGAGAGTTCGTGTCGTCGAGCACGCCGAGC  
GGCCCCAGGGGCCCGGCAAAACCCGAGCGCGGTCCCGGGCCAAGGGCAAGACCAAGGCGAGCCAGGTGAA  
ACCGGGGACAGTCTGCCGCGCGCGGGCCCGGGGCTGCGGGGCCGGGGCTTCGGGGTCCGGGCAGGGA  
GAGGAGCGTGCCGGGGGCGCCAAAGCGTCGCGCTGGCGCGGGAGGCAGAACCGCGAGAAACGCTTACGT  
TCGTGCTGGCGGTGGTATCGGCGTGTTCGTGGTGTGTTGGTTCCCGTTCTTTTACCTACCGTCCAT  
AGCGGTGCGCTGCCCGGTGCCCTACCAGCTCTTCAACTTCTTCTTCTGGTTCGGCTACTGCAACAGCTCG  
CTGAACCTGTTATCTACACATTTTCAACCACGACTTCCGCGCGCCTTCAAGAAGATCCTCTGCCGTG  
GGGACAGAAAGCGCATCGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1470\\_c03.zip](https://cdn.origene.com/chromatograms/ja1470_c03.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_012739

**Insert Size:** 1353 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\\_012739.2](#), [NP\\_036871.2](#)

**RefSeq Size:** 2814 bp

**RefSeq ORF:** 1398 bp

**Locus ID:** 25083

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

**Cytogenetics:** 1q55

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