

Product datasheet for **RR204219**

Adora2a (NM_053294) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adora2a (NM_053294) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adora2a
Synonyms:	A2ar; ADENO; Adora2l1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR204219 representing NM_053294
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTCCTCGGTGTACATCACGGTGGAGCTGGCCATCGCTGTGCTGGCCATCCTGGGCAACGTGCTCG
 TGTGCTGGGCCGTGGATCAACAGTAACCTGCAGAACGTCAACCACTTCTTTGGTATCGCTGGCGGC
 GGCTGACATTGCAGTGGGTGTGCTCGCCATCCCCTTCGCTATCACCATCAGCACCGGCTTCTGCGCCGC
 TGCCACGGCTGCCTCTTCTCGCCTGTTTTGCTCCTCACGCAGAGTTCCATCTTTAGCCTTTGG
 CTATCGCCATCGACCGCTACATCGCCATCCGAATCCACTCCGGTACAATGGCTTGGTGACAGGTGTGAG
 GGCGAAGGGCATCATTGCAATTTGCTGGGTGCTGCTGTTGCCATTGGCCTGACCCCATGCTGGGCTGG
 AACACTGCAGTCAGAAAGACGGGAACCCACGAAGACCTGCGGGCAGGGCCGGGTGACCTGTCTGTTCCG
 AGGACGTGGTCCCATGAATTACATGGTTTACTACAACCTCTTTGCGTTCGTGTTACTGCCCTTCTGCT
 CATGCTGGCCATCTACCTACGGATTTTTCTGGCGCCCGGAGACAGCTGAAGCAGATGGAGAGCCAGCCC
 CTGCCAGGGGAGCGGACTCGGTCCACGCTGCAGAAGGAGGTCCACGCTGCCAAGTCCCTGGCCATCATCG
 TCGGGCTCTTTGCTCTGTGCTGGTTGCCCTGCACATCATCAACTGTTTACCTTCTTCTGCTCCACGTG
 CCGGCACGCCCTCCGTGGCTCATGTACCTGGCCATCATCCTCTCCACAGCAACTCCGTGCTCAACCCC
 TTCATCTACGCCTACAGGATCCGGGAGTCCGCCAGACCTCCGGAAGATCATCCGAACCCACGTCTGA
 GGCGGCAGGAACCTCCAGGCAGGGGTTCCAGTGCCTGGGCCCTGGCAGCTCACAGCACTGAGGGAGA
 GCAGGTTAGCCTCCGCTTAATGGCCACCCCTGGGGTATGGGCCAACGGCAGTCCACCCATTCCGGA
 CGCGGCCCAATGGCTACACTCTGGGGCTGGGGGTGGAGGGAGTGCCCAAGGCTCTCTCGGGATGTGG
 AGCTTCCTACCCAGGAGCGCCAGGAAGGCCAAGAGCACCTGGCCTAAGGGGTCTCTGGTCCAGGCTAG
 AGTAGGAGCTTCTCATGGTCTTCAGAGTTTCCCCCTCCAGTAGGAGCTTCTCATGGTCTTCAGAGTT
 TGCCCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204219 representing NM_053294
 Red=Cloning site Green=Tags(s)

MGSSVYITVELIAVLAAILGNLVCWAVWINSNLQNVNFFVVSLLAAADIAVGVLAIPFAITISTGFCAA
 CHGCLFFACFVLLVTQSSIFSLAIAIDRYIAIRIPLRYNGLVTGVRAKGIIAICWVLSFAIGLTPMLGW
 NNCSQKDGNSKTCGEGRVTCLEFVVPNMVMVYNNFFAFVLLPLLLMLAIYLRIFLAARRQLKQMESQP
 LPGERTSTLQKEVHAAKSLAIIIVGLFALCWLPLHIINCFTFFCSTCRHAPPWMLYLAIIILSHSNSVNNP
 FIYAYRIREFRQTFRKIIRTHVLRREQEPFQAGGSSAWALAAHSTEGEQVSLRLNGHPLGVWANGSATHSG
 RRPNGYTLGLGGGSAQGSPPDVELPTQERQEQEHPGLRGHLVQARVGASSWSSEFAPSSRSFLMVFVY
 CPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1259_b11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_053294

ORF Size: 1230 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_053294.5](#)
RefSeq Size: 2491 bp

RefSeq ORF: 1233 bp

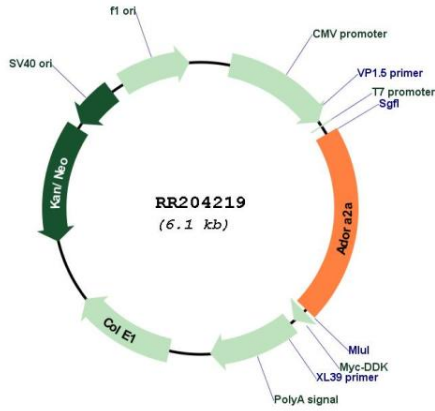
Locus ID: 25369

UniProt ID: [P30543](#)
Cytogenetics: 20p12

MW: 45 kDa

Gene Summary: plays a role in regulation of blood vessel dilation in the adrenal medulla; regulates sodium excretion [RGD, Feb 2006]

Product images:



Circular map for RR204219