

Product datasheet for MR226318

Adora2a (NM_009630) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adora2a (NM_009630) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adora2a
Synonyms:	A2AAR; A2aR; AA2AR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226318 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCTCCTCGGTGACATCATGGTGGAGCTGGCCATTGCTGTGCTGGCCATCCTGGGTAACGTGCTTG
TGTGCTGGGCCGTGTGGATCAACAGCAACCTGCAGAACGTCAACCACTTCTTCGTGGTATCTCTGGCGGC
GGCTGACATCGCGGTGGGCGTGTCCGATCCCATTCGCCATCACCATCAGCACTGGCTTCTGCGCTGCC
TGCCATGGCTGCCTCTTCTCGCCTGCTTTGTCCTGGTCTCACGCAGAGTTCATCTTCAGCCTCTTGG
CTATTGCCATCGACAGATACATCGCCATCCGAATTCCTCCGTTACAATGGCTTGGTGACGGGTATGAG
GGCGAAGGGCATATTGGGATTTGCTGGGTGCTGTCAATTCGCCATCGGCCGACCCCATGCTGGGCTGG
AACAACTGCAGTCAGAAAGATGAGAACTCCACAAGACCTGCGGCGAGGGCCGGGTGACCTGTCTGTTTG
AGGACGTGGTACCCATGAATTACATGGTTTACTACAACCTCTTCGCTTTTGTGTTGCTCCCCCTCCTGCT
CATGCTGGCCATCTACCTAAGGATTTTTTGGCAGCCCGGAGACAGCTGAAGCAGATGGAGAGCCAAACC
CTACCAGGGGAGCGGACTCGTCCACACTGCAGAAGGAAGTCCACGCCGCAAGTCCCTGGCCATCATCG
TGGGGCTCTTGGCCCTGCTGGTTGCCCTGCACATCATCAACTGCTTACCTTCTTCTGCTCCACGTG
CCAGCACGCCCCCTCCTTGGCTCATGTACCTGGCCATCATCCTCTCCACAGCAATTCGTTGTCAACCCC
TTCATCTACGCCCTACAGGATCCGGGAGTTCGCCAGACCTCCGGAAGATCATCCGAACCCACGTCCTGA
GGCGGCAGGAACCTTACAGGGCAGGGGTTCCAGTGCCTGGGCCTTGGCGGCTCACAGCACTGAGGGCGA
GCAGGTACGCTCCGCTCAATGGCCACCCCTGGGAGTATGGGCAATGGGAGTCTCCCACTCTGGA
CGGCGGCCAATGGCTACACCCTGGGGCCGGGAGTGGAGGGAGCACCAAGGGTCTCCTGGGGATGTAG
AGCTTCTTACCCAGGAGCACCAGGAAGGGCAAGAGCACCTGGCCTAGGGGATCATCTGGCCAGGGTAG
GGTAGGAACAGCCTCATGGTCTTACAGATTTGCCCTTCC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226318 protein sequence
 Red=Cloning site Green=Tags(s)

MGSSVYIMVELIAVLAAILGNLVCWAVWINSNLQNVTNFFVVSLLAAADIAVGLAIPFAITISTGFCAA
 CHGCLFFACFVLLVTQSSIFSLLAIAIDRYIAIRIPLRYNGLVTGMRAKGIIAICWVLSFAIGLTPMLGW
 NNCSQKDENSTKTCGEGRVTCLEFDVVPNMVYVYNFFAFVLLPLLLMLAIYLRIFLAARRQLKQMESQP
 LPGERTRSTLQKEVHAAKSLAIIIVGLFALCWLPLHIINCFTFFCSTCQHAPPWLMYLAIIILSHSNVSNP
 FIYAYRIREFRQTFRKIIRTHVLRREQEPFRAGGSSAWALAAHSTEGEQVSLRLNGHPLGVWANGSAPHSG
 RRPNGYTLGPGGGGSTQGSPGDVELLTQEHEQEQEHPGLGDHLAQGRVGTASWSSEFAPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009630

ORF Size: 1233 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_009630.3](#)

RefSeq Size: 2604 bp

RefSeq ORF: 1233 bp

Locus ID: 11540

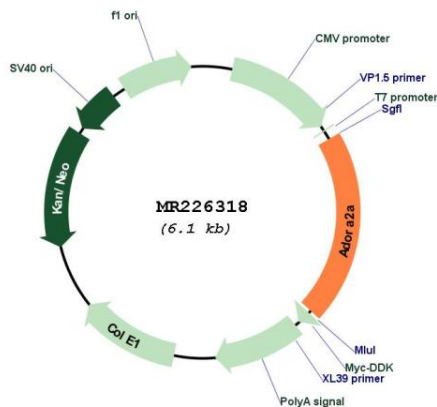
UniProt ID: [Q60613](#)

Cytogenetics: 10 C1

MW: 45 kDa

Gene Summary: Receptor for adenosine. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226318