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Product datasheet for RC206623

Adenosine A2b Receptor (ADORA2B) (NM_000676) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A2b Receptor (ADORA2B) (NM_000676) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adenosine A2b Receptor
Synonyms:	ADORA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206623 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTGGAGACACAGGACGCGCTGTACGTGGCGCTGGAGCTGGTCATCGCCGCGCTTTCGGTGGCGG
GCAACGTGCTGGTGTGCGCCGCGGTGGGCACGGCGAACACTCTGCAGACGCCCACCAACTACTTCCTGGT
GTCCCTGGCTGCGGCCGACGTGGCCGTGGGGCTCTTCGCCATCCCCTTTGCCATCACCATCAGCCTGGGC
TTCTGCACTGACTTCTACGGCTGCCTCTTCCTCGCCTGCTTCGTGCTGGTGCTCACGCAGAGCTCCATCT
TCAGCCTTCTGGCCGTGGCAGTCGACAGATACCTGGCCATCTGTGTCCCGCTCAGGTATAAAAGTTTGGT
CACGGGGACCCGAGCAAGAGGGGTCATTGCTGTCCTCTGGGTCCTTGCCTTTGGCATCGGATTGACTCCA
TTCCTGGGGTGGAACAGTAAAGACAGTGCCACCAACAACTGCACAGAACCCTGGGATGGAACCACGAATG
AAAGCTGCTGCCTTGTGAAGTGTCTCTTTGAGAATGTGGTCCCCATGAGCTACATGGTATATTTCAATTT
CTTTGGGTGTGTTCTGCCCCCACTGCTTATAATGCTGGTGATCTACATTAAGATCTTCCTGGTGGCCTGC
AGGCAGCTTCAGCGCACTGAGCTGATGGACCACTCGAGGACCACCCTCCAGCGGGAGATCCATGCAGCCA
AGTCACTGGCCATGATTGTGGGGATTTTTGCCCTGTGCTGGTTACCTGTGCATGCTGTTAACTGTGTCAC
TCTTTTCCAGCCAGCTCAGGGTAAAAATAAGCCCAAGTGGGCAATGAATATGGCCATTCTTCTGTCACAT
GCCAATTCAGTTGTCAATCCCATTGTCTATGCTTACCGGAACCGAGACTTCCGCTACACTTTTCACAAAA
TTATCTCCAGGTATCTTCTCTGCCAAGCAGATGTCAAGAGTGGGAATGGTCAGGCTGGGGTACAGCCTGC
TCTCGGTGTGGGCCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206623 protein sequence
Red=Cloning site Green=Tags(s)

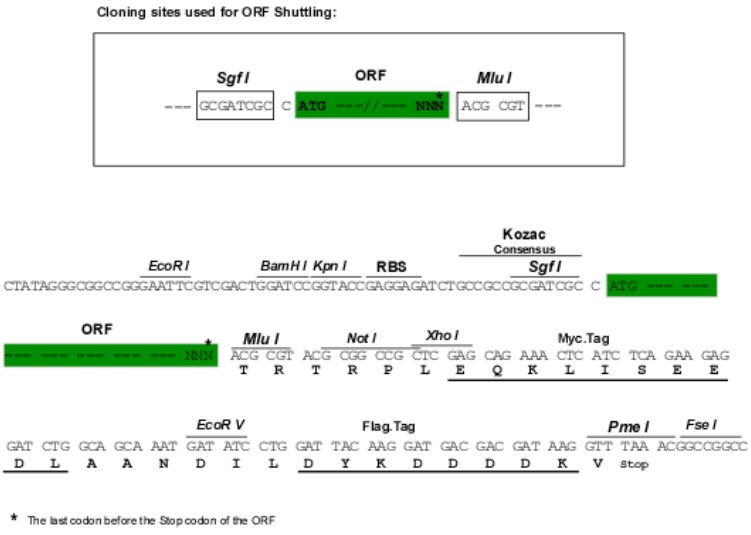
MLLETQDALYVALELVIAALSVAGNVLVCAAVGTANTLQTPTNYFLVSLAAADVAVGLFAIPFAITISLG
FCTDFYGCLFLACFVLVLTQSSIFSLLAVAVDRYLAICVPLRYKSLVTGTRARGVIAVLWVLAFGIGLTP
FLGWNSKDSATNNCTEPWDGTTNESCCLVKCLFENVVPMSYMVYFNFFGCVLPPLLIMLVIYIKIFLVAC
RQLQRTELMDHSRTTLQREIHAAKSLAMIVGIFALCWLPVHAVNCVTLFQPAQGKNKPKWAMNMAILLSH
ANSVVNPIVYAYRNRDFRYTFHKIISRYLLCQADVKSGNGQAGVQPALGVGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6135_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000676

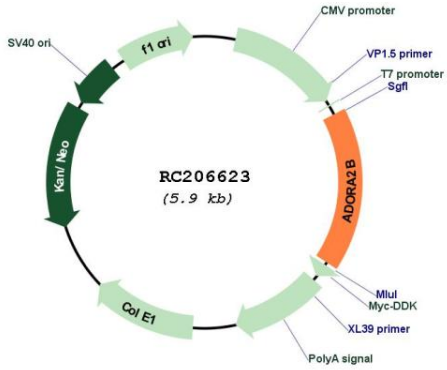
ORF Size: 996 bp

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.

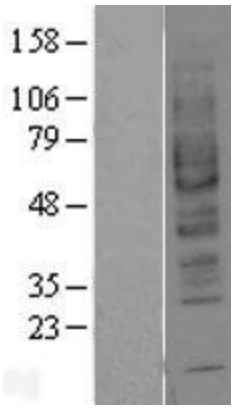
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000676.2, NP_000667.1
RefSeq Size:	1885 bp
RefSeq ORF:	999 bp
Locus ID:	136
UniProt ID:	P29275
Cytogenetics:	17p12
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction
MW:	36.3 kDa
Gene Summary:	This gene encodes an adenosine receptor that is a member of the G protein-coupled receptor superfamily. This integral membrane protein stimulates adenylate cyclase activity in the presence of adenosine. This protein also interacts with netrin-1, which is involved in axon elongation. The gene is located near the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC206623



Western blot validation of overexpression lysate (Cat# [LY400223]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206623 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).