

OriGene Technologies, Inc.

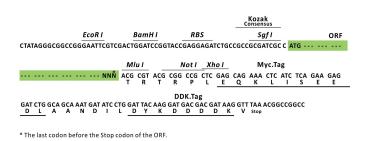
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC204485L1

Adenosine Receptor A2a (ADORA2A) (NM_000675) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine Receptor A2a (ADORA2A) (NM_000675) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Adenosine Receptor A2a
Synonyms:	A2aR; ADORA2; RDC8
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204485).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1 ORF Mlu I GCG ATC GCC ATG // NNN ACG CGT



ACCN: ORF Size: NM_000675 1236 bp



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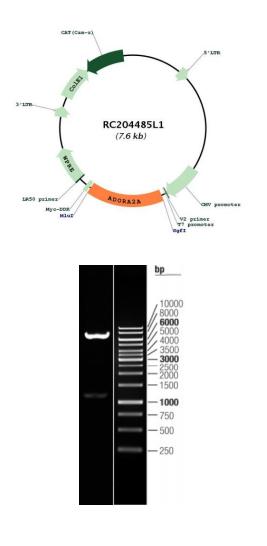
	denosine Receptor A2a (ADORA2A) (NM_000675) Human Tagged Lenti ORF Clone – RC204485L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does 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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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 Met	 chod: 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:	<u>NM 000675.3</u>
RefSeq Size:	2583 bp
RefSeq ORF:	1239 bp
Locus ID:	135
UniProt ID:	<u>P29274</u>
Cytogenetics:	22q11.23
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction
MW:	44.7 kDa

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Scheme Adenosine Receptor A2a (ADORA2A) (NM_000675) Human Tagged Lenti ORF Clone – RC204485L1

Gene Summary:This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled
receptor (GPCR) superfamily, which is subdivided into classes and subtypes. The receptors
are seven-pass transmembrane proteins that respond to extracellular cues and activate
intracellular signal transduction pathways. This protein, an adenosine receptor of A2A
subtype, uses adenosine as the preferred endogenous agonist and preferentially interacts
with the G(s) and G(olf) family of G proteins to increase intracellular cAMP levels. It plays an
important role in many biological functions, such as cardiac rhythm and circulation, cerebral
and renal blood flow, immune function, pain regulation, and sleep. It has been implicated in
pathophysiological conditions such as inflammatory diseases and neurodegenerative
disorders. Alternative splicing results in multiple transcript variants. A read-through transcript
composed of the upstream SPECC1L (sperm antigen with calponin homology and coiled-coil
domains 1-like) and ADORA2A (adenosine A2a receptor) gene sequence has been identified,
but it is thought to be non-coding. [provided by RefSeq, Jun 2013]

Product images:



Circular map for RC204485L1

Double digestion of RC204485L1 using Sgfl and Mlul

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