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Product datasheet for RG222013

Adenosine A1 Receptor (ADORA1) (NM_000674) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adenosine A1 Receptor (ADORA1) (NM_000674) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADORA1
Synonyms:	RDC7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG222013 representing NM_000674
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCCCTCCATCTCAGCTTTCCAGGCCGCCTACATCGGCATCGAGGTGCTCATCGCCCTGGTCTCTG
TGCCCGGGAACGTGCTGGTGATCTGGGCGGTGAAGGTGAACCAGGCGCTGCGGGATGCCACCTTCTGCTT
CATCGTGTCGCTGGCGGTGGCTGATGTGGCCGTGGGTGCCCTGGTCATCCCCCTCGCCATCCTCATCAAC
ATTGGGCCACAGACCTACTTCCACACCTGCCTCATGGTTGCCTGTCCGGTCCTCATCCTCACCCAGAGCT
CCATCCTGGCCCTGCTGGCAATTGCTGTGGACCGCTACCTCCGGGTCAAGATCCCTCTCCGGTACAAGAT
GGTGGTGACCCCCCGGAGGGCGGCGGTGGCCATAGCCGGCTGCTGGATCCTCTCCTTCGTGGTGGGACTG
ACCCCTATGTTTGGCTGGAACAATCTGAGTGCGGTGGAGCGGGCCTGGGCAGCCAACGGCAGCATGGGGG
AGCCCGTGATCAAGTGCGAGTTCGAGAAGGTCATCAGCATGGAGTACATGGTCTACTTCAACTTCTTTGT
GTGGGTGCTGCCCCCGCTTCTCCTCATGGTCCTCATCTACCTGGAGGTCTTCTACCTAATCCGCAAGCAG
CTCAACAAGAAGGTGTCGGCCTCCTCCGGCGACCCGCAGAAGTACTATGGGAAGGAGCTGAAGATCGCCA
AGTCGCTGGCCCTCATCCTCTTCCTCTTTGCCCTCAGCTGGCTGCCTTTGCACATCCTCAACTGCATCAC
CCTCTTCTGCCCGTCCTGCCACAAGCCCAGCATCCTTACCTACATTGCCATCTTCCTCACGCACGGCAAC
TCGGCCATGAACCCCATTGTCTATGCCTTCCGCATCCAGAAGTTCCGCGTCACCTTCCTTAAGATTTGGA
ATGACCATTTCCGCTGCCAGCCTGCACCTCCCATTGACGAGGATCTCCCAGAAGAGAGGCCTGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

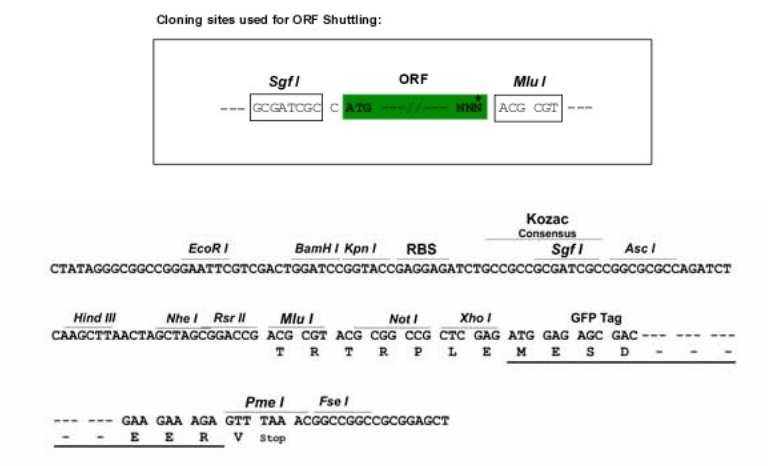
>RG222013 representing NM_000674
Red=Cloning site Green=Tags(s)

MPPSISAFQAAYIGIEVLIALVSVPGNVLVIWAVKVNQALRDATFCFIVSLAVADVAVGALVIPLAILIN
IGPQTYFHTCLMVACPVLILTQSSILALLAIAVDRYLRVKIPLRYKMVVTPRRAAVAIAGCWILSFVVGL
TPMFGWNNLSAVERAWAANGSMGEPVIKCEFEKVISMEYMVYFNFFVWVLPPLLLMVLIYLEVFYLIRKQ
LNKKVSASSGDPQKYYGKELKIAKSLALILFLFALSWLPLHILNCITLFCPSCHKPSILTYIAIFLTHGN
SAMNPIVYAFRIQKFRVTFLKIWNDHFRCQPAPPIDEDLPEERPDD

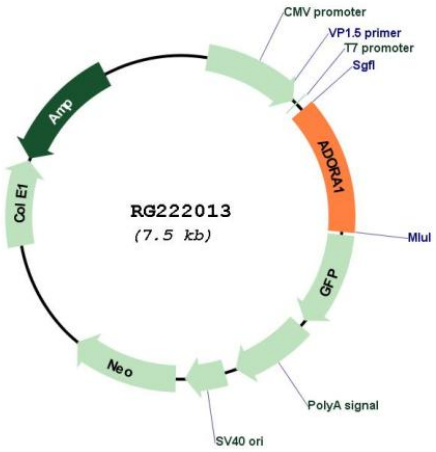
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_000674

ORF Size: 978 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_000674.3
RefSeq Size:	2900 bp
RefSeq ORF:	981 bp
Locus ID:	134
UniProt ID:	P30542
Cytogenetics:	1q32.1
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	The protein encoded by this gene is an adenosine receptor that belongs to the G-protein coupled receptor 1 family. There are 3 types of adenosine receptors, each with a specific pattern of ligand binding and tissue distribution, and together they regulate a diverse set of physiologic functions. The type A1 receptors inhibit adenylyl cyclase, and play a role in the fertilization process. Animal studies also suggest a role for A1 receptors in kidney function and ethanol intoxication. Transcript variants with alternative splicing in the 5' UTR have been found for this gene. [provided by RefSeq, Jul 2008]