

Product datasheet for **MG206632**

Adrb2 (NM_007420) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adrb2 (NM_007420) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Adrb2
Synonyms: Adrb; Adrb-2; Bad; Badm; Gpc; Gpcr7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206632 representing NM_007420
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCACACGGGAACGACAGCGACTTCTTGCTGGCACCCAACGGAAGCCGAGCGCCAGACCAGCAGC
TCACTCAGGAACGGGACGAAGCGTGGTGTGGGCATGGCCATCCTCATGTGCGTTATCGTCCTGGCCAT
CGTGTGGCAACGTGCTGGTCAACAGCCATTGCCAAGTTCGAGCGACTACAAACCGTACCAACTAC
TTCATAATCTCCTGGCGTGTGCTGATCTAGTCATGGCCATAGCGGTGGTCCGTTGGGGCCAGTCACA
TCCTTATGAAAAATGTGGAATTTGGCAACTTCTGGTGGCAGTTCTGGACTCCATTGATGTGTTGTGCGT
CACAGCCAGCATCGAGACCCTGTGCGTGATTGCAGTGGATCGCTATGTTGCTATCACATCGCCCTCAAG
TACCAGAGCCTGCTGACCAAGAATAAGGCCGAGTGGTCACTCCTGATGGTATGGATTGTATCTGGCCTTA
CCTCCTTTTTGCCTATCCAGATGCACTGGTACCGTACCAGTCCACCCACAAGAAAGCTATCGATTGTTACCCGA
GGAGACTTGCTGTGACTTCTTACGAACAGGCCACGCCATCGCGTCCCGATTGTGCTTTCTACGTG
CCCCTGGTGGTGTGTTCTTTGTCTATCCCGGTCTTCCAGGTGGCCAAAAGGCAGCTGCAGAAGATAG
ACAAATCTGAAGGAAGATTCCACGCCAAAACCTCAGCCAGGTGGAGCAGGATGGCGGAGCGGCCACGG
ACTCCGAAGTCTCCAAGTTCTGCTTGAAGAGCACAAAACCTCAAGACTTTAGGCATCATCATGGCC
ACATTCACCTCTGCTGGTGCCTTCTCATTGTCAATATCGTCACGTTATCAGGGACAACCTCATGCC
CTAAGGAAGTTTACATCCTCCTTAAGTGGTGGGCTACGTCACACTCTGCCTTCAATCCTCTTATCTACTG
TCGGAGTCCAGATTTCCAGGATTGCCTTTCAAGAGCTTCTGTGCCTTCGCAGGTCTTCTTCAAAAACCTAT
GGGAACGGCTACTCTAGCAATAGCAACGGCAGAACGGACTACACAGGGGAGCCAAACACTTGTGAGCTGG
GGCAGGAGAGAGAACAGGAAGTGTGTGAGGATCCCCAGGCATGGAAGGCTTTGTGAACTGTCAAGG
TACTGTGCCTAGCCTTAGCGTTGACTCCCAAGGAAGAACTGTAGTACAAATGACTCGCCACTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206632 representing NM_007420
 Red=Cloning site Green=Tags(s)

MGPHGNDSDFLAPNGSRAPDHDVTQERDEAWVVGMAILMSVIVLAIVFGNVLVITAIKFERLQTVTNY
 FIISLACADLVMGLAVVPFGASHILMKMWNFGNFWCEFWTSIDVLCVTASIELTCVIAVDRYVAITSPFK
 YQSLLTKNKARVVILMVIVSGLTSFLPIQMHWRATHKKAIDCYTEETCCDFFTNQAYAIASSIVSFYV
 PLVVMVFVYSRVFQVAKRQLQKIDKSEGRFHAQNL SQVEQDGRSGHGLRRSSKFCLKEHKALKTLGIIMG
 FTFLCWLPFFIVNIVHVIRDNLIPKEVYILLNLWLGYNVSAFNPLIYCRSPDFRIAFQELLCLRSSSKTY
 GNGYSSNSNGRTDYGEPNTCQLGQEREQELLCEDPPGMEGFVNCQGTVPVSLVSDSQGRNCSTNDSPL

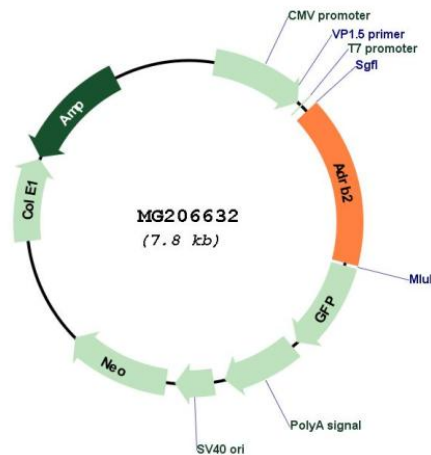
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007420

ORF Size:	1254 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:	<ol style="list-style-type: none">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_007420.3
RefSeq Size:	2173 bp
RefSeq ORF:	1257 bp
Locus ID:	11555
UniProt ID:	P18762
Cytogenetics:	18 35.1 cM
Gene Summary:	<p>This intronless gene belongs to the G-protein-coupled receptor superfamily, which includes transmembrane proteins that play a role in signal transduction across biological membranes resulting in a variety of physiological responses. The encoded protein is a beta-2 adrenergic receptor which is activated by catecholamine ligands such as adrenaline and epinephrine. The protein participates in the classical signaling pathway involving G protein, adenylyl cyclase, cAMP (3'-5'-cyclic adenosine monophosphate) and protein kinase A (PKA). In humans, this gene is implicated in susceptibility to nocturnal asthma, obesity and type 2 diabetes. [provided by RefSeq, Apr 2013]</p>