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Product datasheet for MR206632

Adrb2 (NM_007420) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adrb2 (NM_007420) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adrb2
Synonyms:	Adrb; Adrb-2; Bad; Badm; Gpc; Gpcr7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206632 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCACACGGGAACGACAGCGACTTCTTGCTGGCACCCAACGGAAGCCGAGCGCCAGACCACGACG
TCACTCAGGAACGGGACGAAGCGTGGGTTGTGGGCATGGCCATCCTCATGTCGGTTATCGTCCTGGCCAT
CGTGTTTGGCAACGTGCTGGTCATCACAGCCATTGCCAAGTTCGAGCGACTACAAACCGTCACCAACTAC
TTCATAATCTCCTTGGCGTGTGCTGATCTAGTCATGGGCCTAGCGGTGGTGCCGTTTGGGGCCAGTCACA
TCCTTATGAAAATGTGGAATTTTGGCAACTTCTGGTGCGAGTTCTGGACTTCCATTGATGTGTTGTGCGT
CACAGCCAGCATCGAGACCCTGTGCGTGATTGCAGTGGATCGCTATGTTGCTATCACATCGCCCTTCAAG
TACCAGAGCCTGCTGACCAAGAATAAGGCCCGAGTGGTCATCCTGATGGTATGGATTGTATCTGGCCTTA
CCTCCTTTTTGCCTATCCAGATGCACTGGTACCGTGCCACCCACAAGAAAGCTATCGATTGTTACACCGA
GGAGACTTGCTGTGACTTCTTCACGAACCAGGCCTACGCCATCGCGTCCTCGATTGTGTCTTTCTACGTG
CCCCTGGTGGTGATGGTCTTTGTCTATTCCCGGGTCTTCCAGGTGGCCAAAAGGCAGCTGCAGAAGATAG
ACAAATCTGAAGGAAGATTCCACGCCCAAAACCTCAGCCAGGTGGAGCAGGATGGGCGGAGCGGCCACGG
ACTCCGAAGGTCCTCCAAGTTCTGCTTGAAAGAGCACAAAGCCCTCAAGACTTTAGGCATCATCATGGGC
ACATTCACCCTCTGCTGGCTGCCCTTCTTCATTGTCAATATCGTGCACGTTATCAGGGACAACCTCATCC
CTAAGGAAGTTTACATCCTCCTTAACTGGTTGGGCTACGTCAACTCTGCCTTCAATCCTCTTATCTACTG
TCGGAGTCCAGATTTCAGGATTGCCTTTCAAGAGCTTCTGTGCCTTCGCAGGTCTTCTTCGAAAACCTAT
GGGAACGGCTACTCTAGCAATAGCAACGGCAGAACGGACTACACAGGGGAGCCAAACACTTGTCAGCTGG
GGCAGGAGAGAGAACAGGAACTGCTGTGTGAGGATCCCCCAGGCATGGAAGGCTTTGTGAACTGTCAAGG
TACTGTGCCTAGCCTTAGCGTTGACTCCCAAGGAAGGAACTGTAGTACAAATGACTCGCCACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

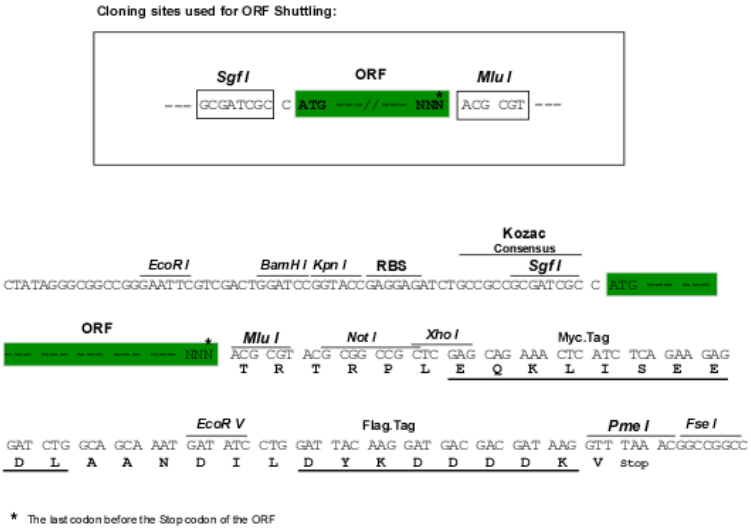
>MR206632 protein sequence
Red=Cloning site Green=Tags(s)

MGPHGNDSDFLLAPNGSRAPDHDVTQERDEAWVVGMAILMSVIVLAIVFGNVLVITAIAKFERLQTVTNY
FIISLACADLVMGLAVVPFGASHILMKMWNFGNFWCEFWTSIDVLCVTASIETLCVIAVDRYVAITSPFK
YQSLLTKNKARVVILMVWIVSGLTSFLPIQMHWYRATHKKAIDCYTEETCCDFFTNQAYAIASSIVSFYV
PLVVMVFVYSRVFQVAKRQLQKIDKSEGRFHAQNLSQVEQDGRSGHGLRRSSKFCLKEHKALKTLGIIMG
TFTLCWLPFFIVNIVHVIRDNLIPKEVYILLNWLGYVNSAFNPLIYCRSPDFRIAFQELLCLRRSSSKTY
GNGYSSNSNGRTDYTGEPNTCQLGQEREQELLCEDPPGMEGFVNCQGTVPSLSVDSQGRNCSTNDSPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007420

ORF Size: 1257 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_007420.3

RefSeq Size: 2269 bp

RefSeq ORF: 1257 bp

Locus ID: 11555

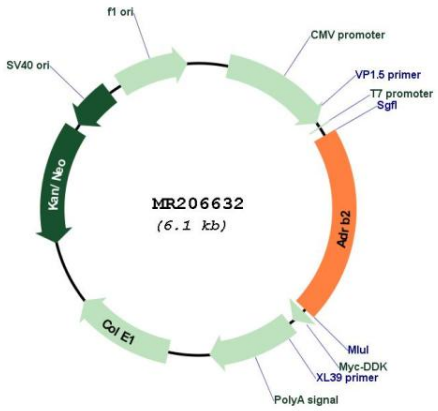
UniProt ID: P18762

Cytogenetics: 18 35.1 cM

MW: 47 kDa

Gene Summary: 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]

Product images:



Circular map for MR206632