

## Product datasheet for **RR212850**

### **Adrb1 (NM\_012701) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Adrb1 (NM_012701) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adrb1
Synonyms:	B1AR; RATB1AR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR212850 representing NM\_012701  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCGCGGGGCGCTCGCCCTGGGCGCTCCGAACCTGCAACCTGTGTCGCGCCGCGCCGCTGCCCC  
 ACGGCGCGGCCACCGCGCACGACTGCTGGTGCTCGCGTGCCTCCCGCTCGCTGCTGCCAGCCAG  
 CGAGGGCTCAGCGCCGCTGTCGACGAGTGACCGCGGGTATGGGCTACTCCTGGCGCTCATCGTGCTG  
 CTCATCGTAGTGGCAACGTGTTGGTGATCGTGGCCATCGCCAAGACCCCGGGTGCAGACGCTACCA  
 ACCTCTTCATCATGTCCCTGGCCAGCGCCGATCTGGTCATGGGACTGCTGGTGGTGCCTTTCGGGGCCAC  
 CATTGTGGTGTGGGGCCGCTGGGAGTACGGCTCCTTCTTCTGTGAGCTCTGGACTTCGGTAGACGTGCTA  
 TGTGTGACGGCCAGCATCGAGACCCTGTGTGCATCGCCCTGGACCGCTACCTCGCCATCAGCTGCCCT  
 TTCGCTACCAGAGCCTGCTGACGCGCGCGAGCGGGCCCTCGTGTGCACAGTGTGGCCATCTCCGC  
 GCTGGTGTCTTCTGCCATCCTCATGCACTGGTGGCGGGCCGAGAGCGACGAAGCGCGCCGCTGTAC  
 AACGACCCCAAGTGTGCGATTTCTGTCACCAACCGGGCCACGCCATCGCCTCGTCCGTCGTCTCCTTCT  
 ACGTGCCCTGTGCATCATGGCCTTCGTGTACCTCCGGGTGTTCCGCGAGGCCAGAAACAGGTGAAGAA  
 GATCGACAGCTGCGAGCGCCGCTTCTCACGGGCCCGCCCGGCCGCTCGCCCGCGCCCTCGCCATCA  
 CCAGGGCCACCGCGCCCGCAGACTCGCTGGCCAACGGGCGCTCCAGCAAGCGCGGGCCGTCGCGCCTCG  
 TGGCTCTGCGAGAGCAGAAGGCGCTCAAGACACTGGGCATCATATGGGTGTGTTACGCTCTGTGGCT  
 GCCCTTCTTCTGGCCAACTGGTGAAGCTTTCACCGCGACCTGGTCCGGATCGCCTTTCGTCTTC  
 TCAACTGGCTGGGCTACGCCAACTCGGCCTTCAACCCATCATCTACTGCCGAGCCCCGACTTCCGCA  
 AGGCTTTCAGCGCCTGCTTTGCTGCGCGCGCCGGCCGCTGCAGACGCGCGCACCCACGGGGACCG  
 GCCGCGCCCTCGGGCTGCCTGGCGAGAGCTGGGCGCCGCGCCGCTCCCGGGGCTCCTTCGGACGACGAC  
 GACGATGACGCCGGGCCACCCACCGCGCGCCTGTTGGAGCCCTGGGCGGGCTGCAACGGCGGGACGA  
 CCACTGTGGACAGCGATTGAGCCTGGACGAGCCGGGACGCCAGGGCTTCTCCTCCGAGTCCAAGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212850 representing NM\_012701  
 Red=Cloning site Green=Tags(s)

MGAGALALGASEPCNLSSAAPLPDGAATAARLLVLASPPASLLPPASEGSAPLSQQWTAGMGLLLALIVL  
 LIVVGNLVIVIAIAKTPRLQTLTNLFIMSLASADLVMGLLVVFPFATIVVWGRWEYGSFFCELWTSVDVL  
 CVTASIEITLCVIALDRYLAILPFRYQSLLTRARARALVCTVWAI SALVSFLPILMHWRAESDEARRCY  
 NDPKCCDFVTNRAYAIASSVVSFYVPLCIMA FVYLRVFREAQKQVKKIDSCERRFLTGP PPRPPSPAPSPS  
 PGPPRPADSLANGRSSKRRPSRLVALREQKALKTLGIIMGVFTLCWLPFFLANVVKAFHRDLVDPDLFVF  
 FNWLGYANSANFPIIYCRSPDFRKAQRLLLCCARRAACRRRAAHGDRPRASGCLARAGPPPSPGAPSDDD  
 DDDAGATPPARLLEPWAGCNGGTTTVDSSSLDEPGRQGFSSSESKV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_012701

**ORF Size:** 1398 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\\_012701.1](#), [NP\\_036833.1](#)
**RefSeq Size:** 1401 bp

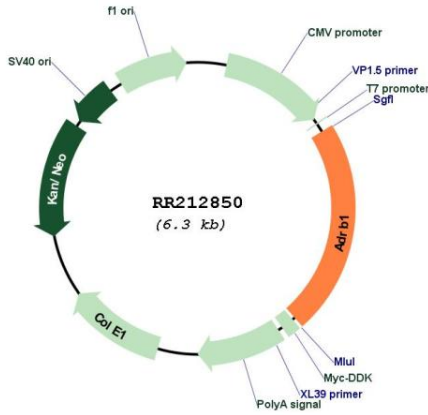
**RefSeq ORF:** 1401 bp

**Locus ID:** 24925

**UniProt ID:** [P18090](#)

**Cytogenetics:** 1q55  
**MW:** 50.5 kDa  
**Gene Summary:** binds beta-adrenergic receptor agonists isoproterenol, norepinephrine, and epinephrine; mediates adenylcyclase induction; involved in regulation of calcium current [RGD, Feb 2006]

**Product images:**



Circular map for RR212850