

## Product datasheet for **RC234049**

### Beta Arrestin 2 (ARRB2) (NM\_001257330) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Beta Arrestin 2 (ARRB2) (NM_001257330) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Beta Arrestin 2
Synonyms:	ARB2; ARR2; BARR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC234049 representing NM\_001257330  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGGGAGAAACCCGGGACCAGGGTCTTCAAGAAGTCGAGCCCTAACTGCAAGCTCACCGTGTACTTGG  
 GCAAGCGGGACTTCGTAGATCACCTGGACAAAGTGGACCCTGTAGATGGCGTGGTCTTGTGGACCCTGA  
 CTACCTGAAGGACCGCAAAGTGTTCGACCTCACCTGCGCCTTCCGCTATGGCCGTGAAGACCTGGAT  
 GTGCTGGGCTTGTCTTCCGCAAAGACCTGTTTCGACCTACCGAGCCTTCCCCCGGTGCCAACCC  
 CACCCCGCCCCCACCAGCCTGCAGGACCGGCTGCTGAGGAAGCTGGGCCAGCATGCCACCCCTTCTT  
 CTTACCATAACCCAGAATCTTCCATGCTCCGTACACTGCAGCCAGGCCAGAGGATACAGGAAAGGCC  
 TGCGGCGTAGACTTTGAGATTCGAGCCTTCTGTGCTAAATCACTAGAAGAGAAAAGCCACAAAAGGAACT  
 CTGTGCGGCTGGTATCCGAAAGGTGCAGTTCGCCCCGGAGAAACCCGGCCCCCAGCCTTACGCCGAAAC  
 CACAGCCACTTCTCATGTCTGACCGGTCCCTGCACCTCGAGGCTTCCCTGGACAAGGAGCTGTACTAC  
 CATGGGGAGCCCCCAATGTAAATGTCCAGTCAACCAACCACTCCACCAAGACCGTCAAGAAGATCAAAG  
 TCTCTGTGAGACAGTACGCCGACATCTGCCTTTCAGCACCGCCAGTACAAGTGTCTGTGGCTCAACT  
 CGAAACAAGATGACCAGGTATCTCCAGCTCCACATTCTGTAAGGTGTACACCATAACCCCACTGCTCAGC  
 GACAACCGGGAGAAGCGGGTCTCGCCCTGGATGGGAACTCAAGCACGAGGACCAACCTGGCTTCCA  
 GCACCATCGTGAAGGAGGGTGCCAACAAGGAGGTGCTGGGAATCCTGGTGTCTACAGGGTCAAGGTGAA  
 GCTGGTGGTGTCTCGAGGCGGGATGTCTCTGTGGAGTGCCTTTTGTCTTATGCACCCCAAGCCCCAC  
 GACCACATCCCCCTCCCAGACCCAGTCAGCACCCACCCACACCCCTTCCCGTCCCCCAGCCG  
 CTCGGGAGACAGATGTCCCTGTGGACACCAACCTCATTGAATTTGATACCAACTATGCCACAGATGATGA  
 CATTGTGTTTGAGGACTTTCGCCGGCTTCGGCTGAAGGGGATGAAGGATGACGACTATGATGATCAACTC  
 TGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234049 representing NM\_001257330  
 Red=Cloning site Green=Tags(s)

MGEKPGTRVFKKSSPNCKLTVYLGKRDFVDHLDKVPDVGVLVDPDYLKDRKVFVTLTCAFRYGRELDL  
 VLGLSFRKDLFIATYQAFPPVPPNPPRPTLRQLDRLLRKLQHAHPFFFTIPQNLPCSVTLQPGPDTGKA  
 CGVDFEIRAFCAKSLKSHKRNVSRLVIRKVQFAPEKPGQPSAETTRHFLMSDRSLHLEASLDKELYY  
 HGEPLNVNVHVTNNSTKVKKIKVSVRQYADICLFSTAQYKCPVAQLEQDDQVSPSSTFCKVYITPLLS  
 DNREKRLALDGLKHEDTNLASSTIVKEGANKEVLGILVSYRVKVKLVVSRGGDVSVLFPVLMHPKPH  
 DHIPLPRPQSAPTPTPLPVPPAAPETDVPVDTNLIEFDNYATDDDIVFEDFARLRLKGMKDDDDYDQL  
 C

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_001257330

ORF Size: 1263 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\\_001257330.2](#)

RefSeq Size: 1972 bp

RefSeq ORF: 1266 bp

Locus ID: 409

UniProt ID: [P32121](#)

Cytogenetics: 17p13.2

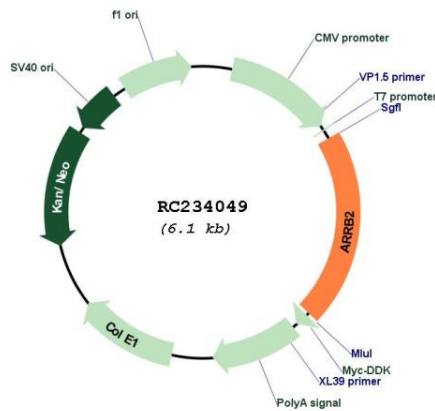
**Protein Families:** Druggable Genome

**Protein Pathways:** Chemokine signaling pathway, Endocytosis, MAPK signaling pathway, Olfactory transduction

**MW:** 47.7 kDa

**Gene Summary:** Members of arrestin/beta-arrestin protein family are thought to participate in agonist-mediated desensitization of G-protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters, or sensory signals. Arrestin beta 2, like arrestin beta 1, was shown to inhibit beta-adrenergic receptor function in vitro. It is expressed at high levels in the central nervous system and may play a role in the regulation of synaptic receptors. Besides the brain, a cDNA for arrestin beta 2 was isolated from thyroid gland, and thus it may also be involved in hormone-specific desensitization of TSH receptors. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]

**Product images:**



Circular map for RC234049