

Product datasheet for RC212960

Beta Arrestin 2 (ARRB2) (NM_199004) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Beta Arrestin 2 (ARRB2) (NM_199004) 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)
ORF Nucleotide Sequence:	>RC212960 representing NM_199004 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGAGAAACCCGGGACCAGGGTCTTCAAGAAGTCGAGCCCTAACTGCAAGCTCACCGTGTACTTGG
GCAAGCGGGACTTCGTAGATCACCTGGACAAAGTGACCCTGTAGTGTGGTGGACCTCACCTGCGCCTT
CCGCTATGGCCGTGAAGACCTGGATGTGCTGGCTTGTCTTCCGCAAAGACCTGTTTCATCGCCACCTAC
CAGGCCTTCCCCCGGTGCCAACCCACCCCGGCCCCACCCGCTGCAGGACCGGCTGCTGAGGAAGC
TGGCCAGCATGCCACCCCTTCTTCTCACCATACCCAGAATCTCCATGCTCCGTCACTGCAGCC
AGGCCAGAGGATACAGGAAAGGCTGCGGCGTAGACTTTGAGATTCGAGCCTTCTGTGCTAAATCTACTA
GAAGAGAAAAGCCACAAAAGGAAGCTCTGTGCGGCTGGTATCCGAAAGGTGCAGTTCGCCCCGGAGAAAC
CCGGCCCCAGCCTTCAGCCGAAACCACAGCCACTTCTCATGTCTGACCGGTCCCTGCACCTCGAGGC
TTCCCTGGACAAGGAGCTGTACTACCATGGGGAGCCCCCTCAATGTAAATGTCCACGTCAACCAACTCC
ACCAAGACCGTCAAGAAGATCAAAGTCTCTGTGAGACAGTACGCCGACATCTGCCTTTCAGCACCGCC
AGTACAAGTGTCTGTGGCTCAACTCGAACAAGATGACCAGGTATCTCCAGCTCCACATTCTGTAAGGT
GTACACCAATAACCCACTGCTCAGCGACAACCCGGGAGAAGCGGGTCTCGCCCTGGATGGGAACTCAAG
CACGAGGACACCAACCTGGCTTCCAGCACCATCGTGAAGGAGGGTGCCAAACAAGGAGGTGCTGGAAATCC
TGGTGTCTACAGGGTCAAGGTGAAGCTGGTGGTGTCTCGAGGCGGGGATGTCTCTGTGGAGCTGCCTTT
TGTCTTATGCACCCCAAGCCCCACGACCACATCCCCCTCCCCAGACCCAGTCAGCCGCTCCGGAGACA
GATGTCCCTGTGGACCAACCTCATTGAATTTGATACCAACTATGCCACAGATGATGACATTGTGTTTG
AGGACTTTGCCCGGCTTCGGCTGAAGGGATGAAGGATGACGACTATGATGATCAACTCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212960 representing NM_199004
 Red=Cloning site Green=Tags(s)

MGEKPGTRVFKKSSPNCKLTVYLGKRDFVDHLDKVDPVVFVTLTCAFYRGREDLDVGLSFRKDLFIATY
 QAFPPVPNPPRPPTRLQDRLLRKLGHHPFFFTIPQNLPCSVTLQPGPEDTGKACGVDFEIRAFCAKSL
 EEKSHKRNSVRLVIRKVQFAPEKPGPQPSAETTRHFLMSDRSLHLEASLDKELYHGEPLNVNVHVTNNS
 TKTVKKIKVSVRQYADICLFSTAQYKCPVAQLEQDDQVSPSSTFCVKVYITPLLSDNREKRLALDGKLE
 HEDTNLASSTIVKEGANKEVLGILVSYRVKVLVVSRRGGDVSVELPFVLMHPKPHDIPLPRPQSAAPET
 DVPVDTNLIIEFDNYATDDDIVFEDFARLRLKGMKDDDDYDDQLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199004

ORF Size: 1182 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_199004.2](#)

RefSeq Size: 1891 bp

RefSeq ORF: 1185 bp

Locus ID: 409

UniProt ID: [P32121](#)

Cytogenetics: 17p13.2

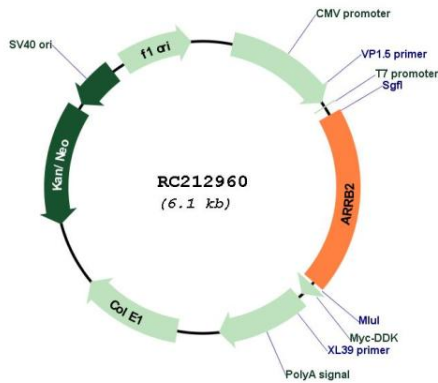
Protein Families: Druggable Genome

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

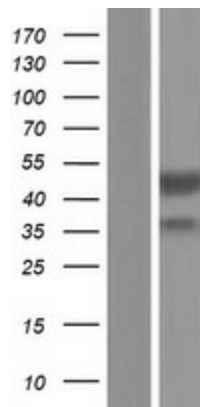
MW: 44.2 kDa

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 RC212960



Western blot validation of overexpression lysate (Cat# [LY404716]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212960 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).