

Product datasheet for **RG234006**

Beta Arrestin 2 (ARRB2) (NM_001257331) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Beta Arrestin 2 (ARRB2) (NM_001257331) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Beta Arrestin 2
Synonyms:	ARB2; ARR2; BARR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234006 representing NM_001257331 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGAGAAACCCGGGACCAGGGTCTTCAAGAAGTCGAGCCCTAACTGCAAGCTCACCGTGTACTTGG
GCAAGCGGGACTTCGTAGATCACCTGGACAAAGTGACCCTGTAGTGTGGTGGACCTCACCTGCGCCTT
CCGCTATGGCCGTGAAGACCTGGATGTGCTGGGCTTGTCTTCCGCAAAGACCTGTTTCATCGCCACCTAC
CAGGCCCTCCCCCGGTGCCAACCCACCCCGGCCCCACCCGCTGCAGGACCGGCTGCTGAGGAAGC
TGGCCAGCATGCCACCCCTTCTTCTTACCATACCCAGAATCTCCATGCTCCGTCACTGCAGCC
AGGCCAGAGGATACAGGAAAGGCTGCGGCTAGACTTTGAGATTCGAGCCTTCTGTGCTAAATACTA
GAAGAGAAAAGCCACAAAAGGAAGTCTGTGCGGCTGGTATCCGAAAGGTGCAGTTCGCCCCGGAGAAAC
CCGGCCCCAGCCTTCAGCCGAAACCACAGCCACTTCTCATGTCTGACCGGTCCCTGCACCTCGAGGC
TTCCCTGGACAAGGAGCTGTACTACCATGGGGAGCCCTCAATGTAAATGTCCAGCTCACAACAAGTCC
ACCAAGACCGTCAAGAAGATCAAAGTCTCTGTGAGACAGTACGCCGACATCTGCCTTTCAGCACCGCC
AGTACAAGTGTCTGTGGCTCAACTCGAACAAGATGACCAGGTATCTCCAGCTCCACATTCTGTAAAGT
GTACACCAATAACCCACTGCTCAGCGACAACCCGGGAGAAGCGGGTCTCGCCCTGGATGGGAACTCAAG
CACGAGGACACCAACCTGGCTTCCAGCACCATCGTGAAGGAGGGTGCCAAAGGAGGTGCTGGAAATCC
TGGTGTCTACAGGGTCAAGGTGAAGTGGTGGTGTCTCGAGGCGGGATGTCTCTGTGGAGCTGCCTTT
TGTCTTATGCACCCCAAGCCCCACGACCACATCCCCCTCCCCAGACCCAGTCAGCACCCACCCCAACA
CCCCCTTCCCGTCCCCCAGCCGCTCCGGAGACAGATGTCCCTGTGGACACCAACCTCATTGAATTTG
ATACCAACTATGCCACAGATGATGACATTGTGTTTGGAGACTTTGCCCGCTTCGGCTGAAGGGGATGAA
GGATGACGACTATGATGATCAACTCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234006 representing NM_001257331
 Red=Cloning site Green=Tags(s)

MGEKPGTRVFKKSSPNCKLTVYLGKRDFVDHLDKVDPPVVFVTLTCAFRYGRELDLVLGLSFRKDLFIATY
 QAFPPVPNPPRPTRLQDRLLRKLQHAHPFFFTIPQNLPCSVTLQPGPEDTGKACGVDFEIRAFCAKSL
 EEKSHKRNSVRLVIRKVQFAPEKPGPQPSAETTRHFLMSDRSLHLEASLDKELYHGEPLNVNVHVTNNS
 TKTVKKIKVSVRQYADICLFSTAQYKCPVAQLEQDDQVSPSSTFCVKVYITPLLSDNREKRLALDGKLLK
 HEDTNLASSTIVKEGANKEVLGILVSYRVKVKLVVSRGGDVSVELPFVLMHPKPHDHIPLPRPQSAPTPT
 PPLPVPPAAPETDVPVDTNLIIEFDNTYATDDDIVFEDFARLRLKGMKDDDYDDQLC

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001257331

ORF Size: 1218 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_001257331.2](#)

RefSeq Size: 1927 bp

RefSeq ORF: 1221 bp

Locus ID: 409

UniProt ID: [P32121](#)

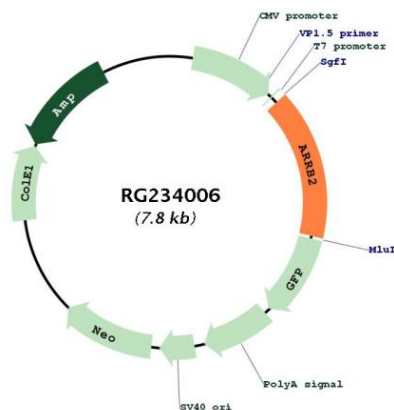
Cytogenetics: 17p13.2

Protein Families: Druggable Genome

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

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 RG234006