

Product datasheet for **RG201279**

beta Arrestin 1 (ARRB1) (NM_004041) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta Arrestin 1 (ARRB1) (NM_004041) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	beta Arrestin 1
Synonyms:	ARB1; ARR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201279 representing NM_004041 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGACAAAGGGACCCGAGTGTTCAAGAAGGCCAGTCCAAATGGAAAGCTCACCGTCTACCTGGGAA
AGCGGGACTTTGTGGACCACATCGACCTCGTGGACCTGTGGATGGTGTGGTCTGGTGGATCCTGAGTA
TCTCAAAGAGCGGAGAGTCTATGTGACGCTGACCTGCGCCTCCGCTATGGCCGGGAGGACCTGGATGTC
CTGGCCCTGACCTTCGCAAGGACCTGTTGTGGCCAACGTACAGTCGTTCCACCGGCCCCGAGGACA
AGAAGCCCTGACGCGGCTGCAGGAACGCCTCATCAAGAAGCTGGGCGAGCAGCTTACCCTTTACCTT
TGAGATCCCTCCAAACCTTCCATGTTCTGTGACACTGCAGCCGGGCCGAAGACACGGGAAGGCTTGC
GGTGTGGACTATGAAGTCAAAGCCTTCTGCGCGGAGAATTTGGAGGAGAAGATCCACAAGCGGAATCTG
TGCGTCTGGTCATCCGGAAGTTTCAGTATGCCCCAGAGAGGCCTGGCCCCAGCCACAGCCGAGACCAC
CAGGCAGTTCTCATGTTCGGACAAGCCCTTGACCTAGAAGCCTCTCTGGATAAAGGAGATCTATTACCAT
GGAGAACCATCAGCGTCAACGTCCACGTACCAACAACCAACAAGACGGTGAAGAAGATCAAGATCT
CAGTGCGCCAGTATGCAGACATCGCTTTTCAACACAGCTCAGTACAAGTGCCTGTTGCCATGGAAGA
GGCTGATGACACTGTGGCACCCAGCTCGACGTTCTGCAAGGTCTACACACTGACCCCTTCTAGCCAAT
AACCGAGAGAAGCGGGCCTCGCCTTGGACGGGAAGCTCAAGCACGAAGACACGAACCTGGCCTTAGCA
CCCTGTTGAGGGAAGGTGCCAACCCTGAGATCCTGGGGATCATTGTTTCTACAAGTGAAGTGAAGCT
GGTGGTGTCTCGGGCGGCTGTTGGGAGATCTTGCATCCAGCGACGTGGCCGTGGAACCTGCCCTTACC
CTAATGCACCCCAAGCCCAAAGAGGAACCCCGCATCGGGAAGTTCAGAGAACGAGACGCCAGTAGATA
CCAATCTCATAGAACTTGACACAAATGATGACGACATTGATTTGAGGACTTTGCTCGCCAGAGACTGAA
AGGCATGAAGGATGACAAGGAGGAAGAGGAGGATGGTACCGGCTCTCCACAGCTCAACAACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG201279 representing NM_004041
 Red=Cloning site Green=Tags(s)

MGDKGTRVFKKASPNGLTVYLGKRDFVDHIDLVPVDGVVLDPEYLKERRVYVTLTCAFYRGREDLDV
 LGLTFRKDLFVANVQSFPPAPEDKKPLTRLQERLIKKGHAYPFFTEIPPNLPCSVTLQPGPDTGKAC
 GVDYEVKAFCAENLEEKIHKRNSVRLVIRKQYAPERPGPQPTAETTRQFLMSDKPLHLEASLDKEIYYH
 GEPISVNVHVTNNTNKTVKKIKISVRQYADICLFNTAQYKCPVAMEEADDTVAPSSTFCKVYTLTPFLAN
 NREKRGLALDGKLKHEDTNLASSTLLREGANREILGIIIVSYKVKVCLVSRGGLLDLASSDVAVELPFT
 LMHPKPKEEPHREVPENETPVDTNLIELDTNDDDIVFEDFARQRLKGMKDDKEEEDGTGSPQLNNR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004041

ORF Size: 1254 bp

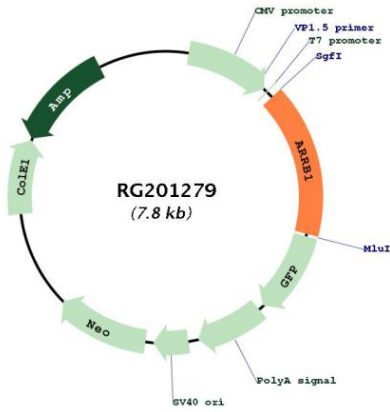
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004041.5
RefSeq Size:	2204 bp
RefSeq ORF:	1257 bp
Locus ID:	408
UniProt ID:	P49407
Cytogenetics:	11q13.4
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway, Endocytosis, MAPK signaling pathway
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 1 is a cytosolic protein and acts as a cofactor in the beta-adrenergic receptor kinase (BARK) mediated desensitization of beta-adrenergic receptors. Besides the central nervous system, it is expressed at high levels in peripheral blood leukocytes, and thus the BARK/beta-arrestin system is believed to play a major role in regulating receptor-mediated immune functions. Alternatively spliced transcripts encoding different isoforms of arrestin beta 1 have been described. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RG201279