

Product datasheet for **SC108950**

Beta Arrestin 2 (ARRB2) (NM_004313) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Beta Arrestin 2 (ARRB2) (NM_004313) Human Untagged Clone
Tag:	Tag Free
Symbol:	Beta Arrestin 2
Synonyms:	ARB2; ARR2; BARR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004313 edited
 GAATTCGGCACGAGGTGGCAGCGGGCGAGGAGGCTGCGAGCGAGCCGGAACCGAGCGGG
 CGGCGGGCGCGCACCATTGGGGGAGAAACCCGGGACCAGGGTCTTCAAGAAGTCGAGCC
 CTAAGTCAAGCTCACCGTGTACTTGGGCAAGCGGGACTTCGTAGATCACCTGGACAAAG
 TGGACCCTGTAGATGGCGTGGTCTTGTGGACCCTGACTACCTGAAGGACCGCAAAGTGT
 TTGTGACCCTCACCTGCGCCTCCGCTATGGCCGTGAAGACCTGGATGTGCTGGGCTTGT
 CCTTCCGCAAAGACCTGTTTCATCGCCACCTACCAGGCCCTCCCGCGGTGCCCAACCCAC
 CCGGCCCCCAACCGCCTGCAGGACCGGCTGCTGAGGAAGCTGGGCCAGCATGCCACC
 CCTTCTTCTTACCATACCCAGAACTTCCATGCTCCGTCACTGCAGCCAGGCCAG
 AGGATACAGAAAGGCTGCGGCGTAGACTTTGAGATTCGAGCCTTCTGTGCTAAATCAC
 TAGAAGAGAAAAGCCACAAAAGGAACTCTGTGCGGCTGGTATCCGAAAGGTGCAGTTCC
 CCGGAGAAAACCGGCCCCAGCCTTCAGCCGAAACCACAGCCACTTCTCATGTCTG
 ACCGGTCCCTGCACCTCGAGGCTTCCCTGGACAAGGAGCTGTACTACCATGGGGAGCCCC
 TCAATGTAATGTCCACGTACCAACAACCTCCACCAAGACCGTCAAGAAGATCAAAGTCT
 CTGTGAGACAGTACGCCGACATCTGCCTTTCAGCACCGCCAGTACAAGTGTCTGTGG
 CTAACCTCGAACAAGATGACCAGGTATCTCCAGCTCCACATTCTGTAAGGTGTACACCA
 TAACCCCACTGCTCAGTGACAACCGGGAGAAGCGGGGTCTCGCCCTGGATGGGAACTCA
 AGCAGCAGGACACCAACCTGGCTTCCAGCACCATCGTGAAGGAGGGTGCCAAAGGAGG
 TGCTGGGAATCCTGGTGTCTACAGGGTCAAGGTGAAGCTGGTGGTGTCTCGAGGCGGGG
 ATGTCTCTGTGGAGTGCCTTTTGTCTTATGCACCCCAAGCCCCAGCCACATCCCCC
 TCCCCAGACCCAGTCAAGCGCTCCGGAGACAGATGTCCCTGTGGACCAACCTCATTG
 AATTTGATACCAACTATGCCACAGATGATGACATTGTGTTTGGAGACTTTGCCCGGCTTC
 GGCTGAAGGGGATGAAGGATGACGACTATGATGATCAACTCTGCTAGGAAGCGGGTGGG
 AAGAAGGGAGGGGATGGGGTTGGGAGAGGTGAGGGCAGGATTAAGATCCCACTGTCAAT
 GGGGATGTCCAGCCCTCTTCCCTCCCTCACCTGGAAGCTTCTTCAACCAATCCC
 TTCACACTCTCTCCCCATCCCCCAAGATACACACTGGACCCTCTTGTGCTGAATGTGG
 GCATTAATTTTTTACTGACGCTCTGCTTCTCCAGCCCCGCGTGGTGGCAAGCTGTGT
 TCATACCTAAATTTTCTGGAAGGGGACAGTGAAAAGAGGAGTGACAGGAGGGAAAGGGG
 AGACAAAACCTACTCTCAACCTCACACCAACACCTCCCATTACTCTCTCTGCCCC
 CATTCTTCAAGAGGAGACCCTTTGGGGACAAGGCCGTTTCTTTGTTTCTGAGCATAAAG
 AAGAAAATAAATCTTTACTAAGAAAAAATAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004313 unedited
 TGTCAGAAATTTGTATACGAACTACTATAGGGCGGCCGCGATTCCGGCAGGAGGTGGCA
 GCGGGCGAGGAGGCTGCGAGCGAGCCGGAACCGAGCGGGCGGGCGCGCACCATG
 GGGGAGAAAACCGGGACCAGGGTCTTCAAGAAGTCGAGCCCTAACTGCAAGCTCACCGTG
 TACTTGGGCAAGCGGGACTTTCGTAGATCACTGGACAAAGTGGACCCTGTAGATGGCGTG
 GTGCTTGTGGACCCTGACTACCTGAAGGACCGCAAAGTGTGTTGACCCTCACCTGCGCC
 TCCGCTATGGCCGTGAAGACCTGGATGTGCTGGGCTTGTCTTCCGCAAAGACCTGTTT
 ATCGCCACCTAACAGGCCTTCCCCCGGTGCCAACCCACCCCGCCCCCACCAGCC
 TGCAGGACCGGCTGCTGAGGAAGCTGGGCCAGCATGCCACCCCTTCTTCTTACCATA
 CCCAGAATCTTCCATGCTCCGTCACTGCAGCCAGGCCAGAGGATACAGGAAAGGCT
 GCGGCGTAGACTTTGAGATTCGAGCCTTCTGTGCTAAATCACTAGAAGAGAAAAGCCACA
 AAAGGAACTCTGTGCGGCTGGTATCCGAAAGGTGCAGTTCGCCCGGAGAAACCGGCC
 CCCAGCCTTCAAGCGAAACCACAGCCACTTCTCATGTCTGACCGGTCCCTGCACCTCG
 AGGCTTCCCTGGACAGGAGCTGTACTACCATGNGAGCCCTCATGTANATGTCCACGT
 CACCAACAACCTCACCAAGACCGTNCAGAAGATCANAGTCTCTGTGAGACAGTACCCGA
 CATCTGCCTTTCAGCACCAGCCAGTACAAGTGTCTGTGGCTCAACTCGAACAGAATGA
 CCGATATCTCCAGCTCCATA

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004313 unedited GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCTTAGTAAAAGATTTATTTTTCT TTCTTTATGCTCAGAAACAAAGAAACGGCCTTGCCCCAAAGGTCTCCTCTTGAAGGAA TGGGGGCAGAGAGAGTGATAATGGGAGGTGTTGGTGTGAGGTTGAAAGTAGGAGTTTTGT CTCCCCCTTCCCTCCTGTCACCTCTTTTCACTGTCCCCTCCAGAAAATTTAGGTAT GAACACAGCTTGCCACCCACGGCGGGCTGGAGAAGCAGAGCTGCAGTCAAAAAATTAAT GCCCACATTCAGCAAGAGAGGGTCCAGTGTGTATCTTGGGGGGATGGGGGAGAGAGTGTG AAGGGATCTGGTTTGAAGAAGCTTCCAGGTGAGGGGAAGGGAAGAGGGGCTGGGACAATC CCCCATTGACAGTGGGGATCTTAATCCTGCCCTCACCTCTCCAACCCCATCCCCCTCCCT TCTTCCCACCCGCTTCCCTAGCAGAGTTGATCATCATAGTCGTCATCCTTCATCCCCTTC AGCCGAAGCCGGGCAAAGTCTCAAACACAATGTCATCATCTGTGGCATAAGTTGGTATCA AATTCAATGAGGTTTGGTGTCCACAGGGACATCTGTCTCCGGAGCGGCTGACTGGGGTCT GAGGATGGGGNATGCTGGTCNTGGGGGCTGGGGGTGCATAANAACAAAGGCATCTGCCAG AGACATCCCCGCCTCGAGACACACAAGTTAACCTAGACCCTGTAAGACACCAGGATTCC CAGCACTTCTTGTGGCACCTNCTCACGATGGTGTGGAAGCCAGTTGGTGTCTCG AGCTTGAGTTTGATTACAGGGCGATACCCCGCTCTCCCGTTGCACTGGCCATGGGGTT GGGGGTCCCCTACAAATTGGGAGCGGAATCCCGGCATTTGTCAATTGACCCAGGCCTT GTCCTGGCGGGCGAAGA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004313
Insert Size:	1880 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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.
RefSeq:	NM_004313.3 , NP_004304.1

RefSeq Size:	1936 bp
RefSeq ORF:	1230 bp
Locus ID:	409
UniProt ID:	P32121
Cytogenetics:	17p13.2
Domains:	arrestin
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway, Endocytosis, MAPK signaling pathway, Olfactory transduction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) uses an alternate in-frame splice junction at the 3' end of an exon compared to variant 3. The resulting isoform (1) lacks an alternate internal segment compared to isoform 3.</p>