

Product datasheet for **SC332528**

Beta Arrestin 2 (ARRB2) (NM_001257331) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Beta Arrestin 2 (ARRB2) (NM_001257331) Human Untagged Clone
Tag: Tag Free
Symbol: Beta Arrestin 2
Synonyms: ARB2; ARR2; BARR2
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332528 representing NM_001257331.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGGGAGAAACCCGGGACCAGGGTCTTCAAGAAGTCGAGCCCTAACTGCAAGCTCACCGTGTACTTG
GGCAAGCGGGACTTCGTAGATCACCTGGACAAAGTGGACCCTGTAGTGTGGTGTGACCCCTCACCTGCGCC
TTCCGCTATGGCCGTGAAGACCTGGATGTGCTGGGCTTGTCTTCCGCAAAGACCTGTTCATCGCCACC
TACCAGGCCTTCCCCCGGTGCCAACCCACCCCGCCCCCACC CGCTGCAGGACCGGCTGCTGAGG
AAGCTGGGCCAGCATGCCACCCCTTCTTCCACCATAACCCAGAATCTCCATGCTCCGTCACACTG
CAGCCAGGCCAGAGGATACAGGAAAGGCTGCGGCGTAGACTTTGAGATTGAGCCTTCTGTGCTAAA
TACTAGAAAGAGAAAAGCCACAAAAGGAACTCTGTGCGGCTGGTATCCGAAAGGTGCAGTTCGCCCCG
GAGAAACCCGGCCCCAGCCTTACGCCGAAACACACGCCACTTCTCATGTCTGACCGGTCCCTGCAC
CTCGAGGCTTCCCTGGACAAGGAGCTGTACTACCATGGGGAGCCCTCAATGTAAATGTCCACGTCACC
AACAACTCCACCAAGACCGTCAAGAAGTCAAAGTCTCTGTGAGACAGTACGCCGACATCTGCCTTTC
AGCACCGCCCAGTACAAGTGTCTGTGGCTCAACTCGAACAAAGTACCAGGATCTCCAGCTCCACA
TTCTGTAAGGTGTACACCATAACCCACTGCTCAGCGACAACCCGGGAGAAGCGGGGTCTCGCCCTGGAT
GGGAACTCAAGCAGGAGACACCAACCTGGCTTCCAGCACCATCGTGAAGGAGGTGCCAACAAGGAG
GTGCTGGGAATCCTGGTGTCTACAGGGTCAAGGTGAAGTGGTGGTCTCGAGGCGGGGATGTCTCT
GTGGAGCTGCCTTTTGTCTTATGCACCCCAAGCCCAAGCACCACATCCCCCTCCCAGACCCAGTCA
GCACCCACCCCAACCCCTTCTCCCGTCCCCCAGCCGCTCCGGAGACAGATGTCCTGTGGACACC
AACCTCATTGAATTTGATACCAACTATGCCACAGATGATGACATTGTGTTTGAGGACTTTGCCCGGCTT
CGGCTGAAGGGGATGAAGGATGACGACTATGATGATCAACTCTGCTAG
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001257331
Insert Size: 1221 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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_001257331.1
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
MW:	45.6 kDa
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 (6) lacks an alternate in-frame exon, uses an alternate in-frame splice junction at the 3' end of an exon, and uses an alternate in-frame splice junction at the 5' end of another exon compared to variant 3. The resulting isoform (6) lacks two alternate internal segments and contains another alternate internal segment compared to isoform 3.</p>