

## Product datasheet for **SC332526**

### Beta Arrestin 2 (ARRB2) (NM\_001257329) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Beta Arrestin 2 (ARRB2) (NM_001257329) Human Untagged Clone
Tag:	Tag Free
Symbol:	Beta Arrestin 2
Synonyms:	ARB2; ARR2; BARR2
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC332526 representing NM_001257329. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGGGAGAAACCCGGGACCAGGGTCTTCAAGAAGTCGAGCCCTAACTGCAAGCTCACCGTGTACTTG
GGCAAGCGGGACTTCGTAGATCACCTGGACAAAGTGGACCCTGTAGATGGCGTGGTGTGTGGACCCT
GACTACCTGAAGGACCGCAAAGTGTGTTGTGACCCTCACCTGCGCCTTCCGCTATGGCCGTGAAGACCTG
GATGTGCTGGGCTGTCTTCCGCAAAGACCTGTTTCATCGCCACCTACCAGGCCCTCCCCCGGTGCC
AACCCACCCCGCCCCACCCGCTGCAGGACCGGCTGTGAGGAAGCTGGGCCAGCATGCCACCCC
TTCTTCTTACCATAACCCAGAATCTTCCATGCTCCGTACACTGCAGCCAGGCCAGAGGATACAGGA
AAGGCCTGCGGCGTAGACTTTGAGATTCGAGCCTTCTGTGCTAAATCACTAGAAGAGAAAAGCCACAAA
AGGAACTCTGTGCGGCTGGTGATCCGAAAGGTGCAGTTCCGCCCGGAGAAACCCGGCCCCAGCCTTCA
GCCGAAACCACACGCCACTTCTCATGTCTGACCGGTCCCTGCACCTCGAGGCTTCCCTGGACAAGGAG
CTGTACTACCATGGGGAGCCCCCAATGTAATGTCCACGTACCAACAACCTCCACCAAGACCGTCAAG
AAGATCAAAGTCTCTGTGAGACAGTACGCCGACATCTGCCTCTTCAGCACCGCCAGTACAAGTGTCT
GTGGCTCAACTCGAACAAGATGACCAGCGTGAAGGAGGGTGCCACAAGGAGGTGCTGGGAATCTGGT
GTCCTACAGGGTCAAGGTGAAGCTGGTGGTGTCTCGAGGCGGGATGTCTCTGTGGAGCTGCCTTTGT
TCTTATGCACCCCAAGCCCCACGACCACATCCCCCTCCCAGACCCAGTCAGCCGCTCCGGAGACAGA
TGTCCTGTGGACCAACCTCATGA
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001257329
Insert Size:	993 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).
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).



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**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\\_001257329.1](#)

**RefSeq Size:** 1805 bp

**RefSeq ORF:** 993 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:** 36.6 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]

Transcript Variant: This variant (4) uses an alternate in-frame splice junction at the 3' end of an exon and uses an alternate splice junction at the 3' end of another exon, that causes a frameshift. The resulting isoform (4) lacks an alternate internal segment and has a shorter and distinct C-terminus compared to isoform 3.