

Product datasheet for **RC204499L4V**

beta 2 Adrenergic Receptor (ADRB2) (NM_000024) Human Tagged ORF Clone Lentiviral Particle

Product data:

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| Product Type: | Lentiviral Particles |
| Product Name: | beta 2 Adrenergic Receptor (ADRB2) (NM_000024) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | beta 2 Adrenergic Receptor |
| Synonyms: | ADRB2R; ADRBR; B2AR; BAR; BETA2AR |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_000024 |
| ORF Size: | 1239 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC204499). |
| 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. |
| RefSeq: | NM_000024.3 |
| RefSeq Size: | 2015 bp |
| RefSeq ORF: | 1242 bp |
| Locus ID: | 154 |
| UniProt ID: | P07550 |
| Cytogenetics: | 5q32 |
| Domains: | 7tm_1 |



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|--------------------------|--|
| Protein Families: | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways: | Calcium signaling pathway, Endocytosis, Neuroactive ligand-receptor interaction |
| MW: | 46.4 kDa |
| Gene Summary: | <p>This gene encodes beta-2-adrenergic receptor which is a member of the G protein-coupled receptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V)1.2. This receptor-channel complex also contains a G protein, an adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This receptor is also a transcription regulator of the alpha-synuclein gene, and together, both genes are believed to be associated with risk of Parkinson's Disease. This gene is intronless. Different polymorphic forms, point mutations, and/or downregulation of this gene are associated with nocturnal asthma, obesity, type 2 diabetes and cardiovascular disease. [provided by RefSeq, Oct 2019]</p> |