

Product datasheet for RC223317L2V

OriGene Technologies, Inc.

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Angiotensin II Type 2 Receptor (AGTR2) (NM_000686) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: Angiotensin II Type 2 Receptor (AGTR2) (NM_000686) Human Tagged ORF Clone Lentiviral

Particle

Symbol: Angiotensin II Type 2 Receptor

Synonyms: AT2; ATGR2; MRX88

Mammalian Cell

Selection:

None

Vector: pLenti-C-mGFP (PS100071)

Tag: mGFP

ACCN: NM_000686

ORF Size: 1089 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC223317).

OTI Disclaimer:

Sequence:

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: <u>NM 000686.3</u>

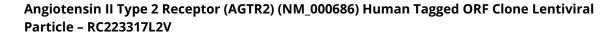
RefSeq Size: 2448 bp
RefSeq ORF: 1092 bp
Locus ID: 186

UniProt ID: P50052

Cytogenetics: Xq23

Protein Families: Druggable Genome, GPCR, Transmembrane







Protein Pathways: Neuroactive ligand-receptor interaction, Renin-angiotensin system

MW: 41 kDa

Gene Summary: The protein encoded by this gene belongs to the G-protein coupled receptor 1 family, and

functions as a receptor for angiotensin II. It is an intergral membrane protein that is highly expressed in fetus and in neonates, but scantily in adult tissues, except brain, adrenal medulla, and atretic ovary. This receptor has been shown to mediate programmed cell death

and this apoptotic function may play an important role in developmental biology and

pathophysiology. Mutations in this gene are been associated with X-linked cognitive disability. Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) and SARS-CoV-2 infection results in down-regulation of angiotensin converting enzyme-2 (ACE2) receptors, the effects of which,

triggers serious inflammatory lesions in the tissues involved, primarily in the lungs. The inflammatory reaction appears to be mediated by angiotensin II derivatives, including the angiotensin AT2 receptor which has been found to be upregulated in bronchoalveolar lavage samples from Coronavirus disease 2019 (COVID19) patients. [provided by RefSeq, Jul 2020]