

Product datasheet for RC223317L3

OriGene Technologies, Inc.

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

Product data:

Product Type: Expression Plasmids

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

Tag: Myc-DDK

Symbol: Angiotensin II Type 2 Receptor

Synonyms: AT2; ATGR2; MRX88

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

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

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_000686

ORF Size: 1089 bp





Angiotensin II Type 2 Receptor (AGTR2) (NM_000686) Human Tagged Lenti ORF Clone – RC223317L3

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.

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: 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: <u>NM 000686.3</u>

RefSeq Size:2448 bpRefSeq 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

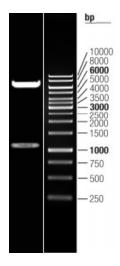
pathophysiology. Mutations in this gene are been associated with X-linked cognitive disability. Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) and SARS-CoV-2 infection results in down-regulation of angiotensin converting enzyme-2 (ACE2) receptors, the effects of which, triggers serious inflammatory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

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]

inflammatory reaction appears to be mediated by angiotensin II derivatives, including the



Product images:



Double digestion of RC223317L3 using Sgfl and Mlul $\,$