

Product datasheet for RC210389L4

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Dopamine Receptor D1 (DRD1) (NM_000794) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Dopamine Receptor D1 (DRD1) (NM 000794) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Dopamine Receptor D1

Synonyms: DADR; DRD1A

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

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

ORF Nucleotide The ORF insert of this clo

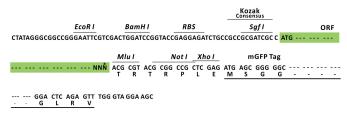
Sequence:

The ORF insert of this clone is exactly the same as(RC210389).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000794

ORF Size: 1338 bp



Dopamine Receptor D1 (DRD1) (NM_000794) Human Tagged Lenti ORF Clone - RC210389L4

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 000794.3</u>

 RefSeq Size:
 3373 bp

 RefSeq ORF:
 1341 bp

 Locus ID:
 1812

 UniProt ID:
 P21728

Cytogenetics: 5q35.2

Domains:

-

7tm 1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Gap junction, Neuroactive ligand-receptor interaction

MW: 49.3 kDa

Gene Summary: This gene encodes the D1 subtype of the dopamine receptor. The D1 subtype is the most

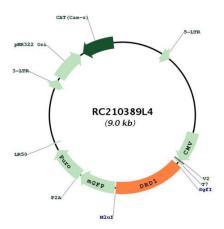
abundant dopamine receptor in the central nervous system. This G-protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP-dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and

modulate dopamine receptor D2-mediated events. Alternate transcription initiation sites

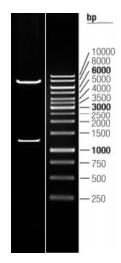
result in two transcript variants of this gene. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC210389L4



Double digestion of RC210389L4 using Sgfl and Mlul $\,$