

## Product datasheet for RC220000L3

### https://www.origene.com techsupport@origene.com EU: info-de@origene.com

EU: info-de@origene.com CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436

**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

# PCSK9 (NM 174936) Human Tagged Lenti ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** PCSK9 (NM\_174936) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: PCSK9

Synonyms: FH3; FHCL3; HCHOLA3; LDLCQ1; NARC-1; NARC1; PC9

Mammalian Cell Puromycin

Selection:

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

Sgfl-RsrII

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC220000).

Sequence:

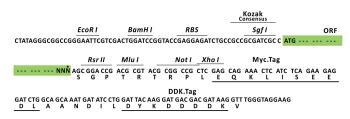
nce:

Restriction Sites: Cloning Scheme:

 Cloning sites used for ORF Shuttling:

 SgfI
 ORF
 Rsr II

 ---- GCG ATC GC
 ATG ---//--- NNN AG C GGA CCG --



<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_174936

ORF Size: 2076 bp





### PCSK9 (NM\_174936) Human Tagged Lenti ORF Clone - RC220000L3

**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 174936.2</u>

RefSeq Size: 3636 bp
RefSeq ORF: 2079 bp
Locus ID: 255738
UniProt ID: Q8NBP7
Cytogenetics: 1p32.3

**Domains:** Peptidase\_S8

**Protein Families:** Secreted Protein

**MW:** 71 kDa

**Gene Summary:** This gene encodes a member of the subtilisin-like proprotein convertase family, which

includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The encoded protein undergoes an autocatalytic processing event with its prosegment in the ER and is constitutively secreted as an inactive protease into the extracellular matrix and trans-Golgi network. It is expressed in liver, intestine and kidney tissues and escorts specific receptors for lysosomal degradation. It plays a role in cholesterol and fatty acid metabolism. Mutations in this gene have been

associated with autosomal dominant familial hypercholesterolemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]