

Product datasheet for **SC309060**

NOTCH3 (NM_000435) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NOTCH3 (NM_000435) Human Untagged Clone
Tag: Tag Free
Symbol: NOTCH3
Synonyms: CADASIL; CADASIL1; CASIL; IMF2; LMNS
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000435 edited
 CGGCGCGGAGGCTGGCCCGGGACGCGCCCGGAGCCAGGGAAGGAGGGAGGAGGGGAGGG
 TCGCGGCCGCGCCCATGGGGCCGGGGCCCGTGGCCCGCCGCGCCCGCTCGCCGATG
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CCCTCGGGCTTCAGCGGCTCCACGTGTCAGCTGGACGTGGACGAATGCGCCAGCACGCC
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000435 unedited
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CCCTGGCGAAAAAGGGCACCCAAAAAAGGGACCTTTTTCCGGGGTTTGGGGGAAA
AAATGAAAAAAGGGGAAATATCCCAAC
```

Restriction Sites:

Please inquire

ACCN:

NM_000435

Insert Size:

8200 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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:	<ol style="list-style-type: none">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:	NM_000435.1 , NP_000426.1
RefSeq Size:	8091 bp
RefSeq ORF:	6966 bp
Locus ID:	4854
UniProt ID:	Q9UM47
Cytogenetics:	19p13.12
Domains:	NL, EGF_CA, ANK, EGF, EGF
Protein Families:	Druggable Genome
Protein Pathways:	Dorso-ventral axis formation, Notch signaling pathway
Gene Summary:	<p>This gene encodes the third discovered human homologue of the <i>Drosophila melanogaster</i> type I membrane protein notch. In <i>Drosophila</i>, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signalling pathway that plays a key role in neural development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remains to be determined. Mutations in NOTCH3 have been identified as the underlying cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). [provided by RefSeq, Jul 2008]</p>