

## Product datasheet for **SC337316**

### **NPC1L1 (NM\_001300967) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NPC1L1 (NM_001300967) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPC1L1
Synonyms:	LDLCQ7; NPC11L1; SLC65A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001300967, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAGGCCGCTGAGGGGCTGGCTGCTGTGGCCCTGCTCCTGCGCTTGGCCAGAGTGAGCCTT
ACACAACCATCCACCAGCTGGCTACTGCGCTTCTATGACGAATGTGGGAAGAACCAGAGCTGTCTGG
AAGCCTCATGACACTCTCCAACGTGTCTGCTGTCCAACACGCCGCCGCAAGATCACAGGTGATCAC
CTGATCCTATTACAGAAGATCTGCCCCGCTCTACACCGCCCCAACCCCAAGCTGCTGCTCCGCCA
AGCAGCTGGTATCACTGGAAGCGAGTCTGTGATCACCAGGCCCTCCTACCCGCTGCCAGCCTGCTC
TGACAATTTGTGAACCTGCACTGCCACAACACGTGCAGCCCAATCAGAGCCTTTCATCAATGTGACC
CGCGTGGCCAGCTAGGGGCTGGACAACCTCCAGCTGTGGTGGCCTATGAGGCCTTACCAGCATAGCT
TTGCCGAGCAGAGCTATGACTCCTGCAGCCGTGTGCGCTCCCTGCAGCTGCCACGCTGGCTGTGGGCAC
CATGTGTGGCGTGTATGGCTCTGCCCTTGCAATGCCAGCGCTGGCTCAACTCCAGGGAGACACAGGC
AATGGTCTGGCCCACTGGACATCACCTCCACCTCTTGGAGCCTGGCCAGGCCGTGGGAGTGGGATTC
AGCCTCTGAATGAGGGGTTGCACGTTGCAATGAGTCCCAAGGTGACGACGTGGCGACCTGCTCCTGCCA
AGACTGTGCTGCATCCTGTCTGCCATAGCCCCGCCCCAGGCCCTCGACTCCACCTTCTACTGGGCCAG
ATGCCGGGAGTCTGGTCTCATCATCCTCTGCTCTGCTTTCGCTGTGGTACCATCCTGCTTGTGG
GATTCCGTGTGGCCCCGCCAGGGACAAAAGCAAGATGGTGGACCCCAAGAAGGGCACCAGCCTCTCTGA
CAAGCTCAGCTTCTCCACCCACACCCTCCTTGGCCAGTCTTCCAGGGCTGGGGCAGTGGGTGGCTTCG
TGGCCTTGACCATCTTGGTGTATCTGTATCCCGGTGGTGGCCTTGGCAGCGGGCCTGGTCTTTACAG
AACTACTACGGACCCCGTGGAGCTGTGGTCGGCCCCAACAGCCAAGCCGGAGTGAGAAAGCTTTCCA
TGACCAGCATTTTCGGCCCTTCTCCGAACCAACCAGGTGATCCTGACGGCTCCTAACCGTCCAGCTAC
AGGTATGACTCTCTGCTGCTGGGGCCCAAGAACTTCAGCGGAATCCTGGACCTGGACTTGTCTGGAGC
TGCTAGAGCTGCAGGAGAGGCTGCGGCACCTCCAGGTATGGTCGCCCGAAGCACAGCGCAACATCTCCCT
GCAGGACATCTGTACGCCCCCTCAATCCGGACAATACCAGTCTCTACGACTGCTGCATCAACAGCCTC
CTGCAGTATTTCCAGAACAACCGCACGCTCCTGCTGCTCACAGCCAACCAGACTGATGGGGCAGACCT
CCCAAGTCGACTGGAAGGACATTTTCTGTACTGTGCAATGCCCGCTCACCTTCAAGGATGGCACAGC
CCTGGCCCTGAGCTGCATGGCTGACTACGGGGCCCTGTCTTCCCCTTCTTGCATTGGGGGTACAAA
GGAAAGGACTATTCTGAGGCAGAGGCCCTGATCATGACGTTCTCCCTCAACAATTACCCTGCCGGGGACC
CCCGTCTGGCCAGGCCAAGCTGTGGGAGGAGCCTTCTTAGAGGAAATGCGAGCCTTCCAGCGTGGAT
GGCTGGCATGTTCCAGGTCACGTTTCATGGCTGAGCGCTCTCTGGAAGACGAGATCAATCGCACACAGCT
GAAGACCTGCCCATCTTTGCCACCAGCTACATTGTCATATTCCTGTACATCTCTTGGCCCTGGGCAGCT
ATTCCAGCTGGAGCCGAGTGATGGTGGACTCCAAGGCCACGCTGGGCCTCGGCGGGGTGGCCGTGGTCTT
GGGAGCAGTATGGCTGCCATGGGCTTCTTCTCTACTTGGGTATCCGCTCCTCCCTGGTCATCCTGCAA
GTGGTTCCTTCTGGTGTGTCGTTGGGGCTGATAACATCTTCATCTTGTTCCTCGAGTACCAGGGGC
CCTGA
    
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001300967

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001300967.1</a></u> , <u><a href="#">NP_001287896.1</a></u>
<b>RefSeq Size:</b>	2571 bp
<b>RefSeq ORF:</b>	2175 bp
<b>Locus ID:</b>	29881
<b>UniProt ID:</b>	<u><a href="#">Q9UHC9</a></u>
<b>Cytogenetics:</b>	7p13
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a multi-pass membrane protein. It contains a conserved N-terminal Niemann-Pick C1 (NPC1) domain and a putative sterol-sensing domain (SSD) which includes a YQRL motif functioning as a plasma membrane to trans-Golgi network transport signal in other proteins. This protein takes up free cholesterol into cells through vesicular endocytosis and plays a critical role in the absorption of intestinal cholesterol. It also has the ability to transport alpha-tocopherol (vitamin E). The drug ezetimibe targets this protein and inhibits the absorption of intestinal cholesterol and alpha-tocopherol. In addition, this protein may play a critical role in regulating lipid metabolism. Polymorphic variations in this gene are associated with plasma total cholesterol and low-density lipoprotein cholesterol (LDL-C) levels and coronary heart disease (CHD) risk. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (3) lacks several exons and its 3'-terminal exon extends past a splice site that is used in variant 1. The encoded isoform (3) has a shorter and distinct C-terminus, compared to isoform 1.</p>