

Product datasheet for **MC200435**

Npc2 (NM_023409) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Npc2 (NM_023409) Mouse Untagged Clone
Tag: Tag Free
Symbol: Npc2
Synonyms: 2700012J19Rik; AA408070; AU045843; HE1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC003471 sequence for NM_023409
GCTCGGGCTGCTTTTCTCCTAGATTGCAGAGCTTTCATATCCACGATGCGTTTTCTGGCCGCCACGAT
CCTGCTGCTGGCGCTGGTCCGCTGCCAGCCAGGCGGAGCCCTGCACTTCAAGGACTGCGGCTCTAAGGTG
GGAGTTATAAAGGAGGTGAATGTGAGCCATGTCCCACCGATCCCTGTGCTGACAAAGGCCAGTCCT
ACAGTGTCAACATCACCTTTACCAGCGGCACTCAGTCCCAGAACAGCACGGCCTTGGTCCACGGCATCCT
GGAAGGGATCCGGTCCCCTTCCCTATTCTGAGCCTGACGGTTGAAGAGTGGAATCAACTGCCCCATC
CAGAAAGACAAGGTCTACAGCTACCTGAATAAGCTTCCGGTGAAGAATGAATACCCCTCTATAAACTGG
TGGTGAATGAACTTGAAGATGACAAAAAGAATAATCTCTTCTGCTGGGAGATCCCAGTTCAGATCAC
AAGCTAGGCTCCTTGGCGCTGTGTCTGTGTGGGCTGAGAGGCCATGGACGGAGTGGGGGGAAGAAACA
GAAATCAGACCCGAAATGAATCAGTGCCATATGATGAACAGAATTTCAAGAATGCTGTTTTATGCCTTT
TAACCTCAAAGCAGTAAGTCAAGCCTACTACTCTTGAGAGCGCGCTCAGAGCCATTGCCCCGAGAT
AGCCTCTGGGGAGGCTTCGGGAGGGAAAGGGAACTGGAAGATTAGATTGGTGTCCATGGCTGTTTGC
TGTGGATTACAGGCAGGTTCCACCAGACAGGATGGGACGGGTTGCTTAGGGATGTCAGATAAATTGAC
CCAGGGCTATGGATCCACTGTGAAGGATGGCTTCCCAGAGTCTTCTGGCTGCCTGGGGGTGTACCTCCC
CTGTTTCTAAGTGCCTCCTGAGTCCCCAGCCCCTGGCTTATCAGTCAGATGAGTCTCCTTGGTAGCCTCT
GCCCCATCGCTTACAGCAGTAGCGACTAGCTCTCCTCGGTATCCAGACTGGCTGAGGGCAGTCTGCCGCA
GAAATTTGTCTCTGAGTGGCTGTGTCTTTGTGGTTAGCTCTCGTCTTTGGTAGTTTTATTAAAGCCAA
TACTTGGTTGCAGGTGCTTGGTTTTGTTTTTAAACGGTATTTGTCTGTATCCTCTCTGATGTAAGAT
TGAGCCTCCCCATAAATTTAACTTGCCAAA

Restriction Sites: RsrII-NotI
ACCN: NM_023409
Insert Size: 450 bp



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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).
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:	BC003471 , AAH03471
RefSeq Size:	1252 bp
RefSeq ORF:	450 bp
Locus ID:	67963
UniProt ID:	Q9Z0J0
Cytogenetics:	12 D1
Gene Summary:	Intracellular cholesterol transporter which acts in concert with NPC1 and plays an important role in the egress of cholesterol from the lysosomal compartment (PubMed:12591949, PubMed:17018531, PubMed:21315718, PubMed:26296895). Unesterified cholesterol that has been released from LDLs in the lumen of the late endosomes/lysosomes is transferred by NPC2 to the cholesterol-binding pocket in the N-terminal domain of NPC1. May bind and mobilize cholesterol that is associated with membranes. NPC2 binds cholesterol with a 1:1 stoichiometry. Can bind a variety of sterols, including lathosterol, desmosterol and the plant sterols stigmasterol and beta-sitosterol (By similarity). The secreted form of NCP2 regulates biliary cholesterol secretion via stimulation of ABCG5/ABCG8-mediated cholesterol transport (PubMed:21315718).[UniProtKB/Swiss-Prot Function]