

Product datasheet for **MC218762**

Canx (NM_007597) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Canx (NM_007597) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Canx
Synonyms:	1110069N15Rik; AI988026; Cnx; D11Erttd153e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC218762 representing NM_007597
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAAGGGAAGTGGTTACTGTGTTGCTGCTGGTCTTGAAGTGCAGCTGTTGAGGCTCATGATGGAC
ATGATGATGACGCGATTGATATTGAAGATGATCTTGATGATGTTATTGAAGAGGTAGAAGATTCAAATC
TAAATCAGATGCCAGCACTCCTCCATCTCCAAAGTCCACACAAAGCTCCAGTTCACACAGGGGAGGTT
TATTTTGTGACTCCTTTGACAGAGGCTCTGTGAGGGTGGATTTTATCTAAAGCCAAAAAAGATGACA
CTGATGATGAAATTGCCAAATATGATGGAAAGTGGGAAGTAGATGAGATGAAGGAAACAAAGCTTCCAGG
GGATAAAGGACTTGTACTGATGTCTCGGGCCAAGCATCATGCCATCTCTGCTAACTGAATAAGCCCTTC
CTGTTTGATACCAAGCCTCATTGTTCCAGTATGAGGTTAATTTTCAGAAATGGAATAGAATGTGGTGGT
CCTATGTGAAGCTGCTTCCAAGACGGCAGAGCTCAGCCTGGATCAATCCACGACAAGACTCCCTATAC
TATTATGTTTGGTCCAGATAAGTGTGGAGAGGACTACAACTGCATTTTCATCTTTTCGACACAAAAATCCC
AAGACAGGTGTATATGAAGAAAAACATGCTAAGAGGCCAGATGCAGATCTGAAGACCTATTTCACTGACA
AGAAAAACGCATCTTTATACATTAATCTTGAATCCAGACAATAGTTTTGAAATATTAGTTGACCAGTCTGT
TGTGAACAGTGGAAATCTGCTAAATGACATGACTCCTCTGTAACCCCTTACAGTGAATTTGAAGACCCA
GAAGACCGGAAGCCTGAAGATTGGGATGAAAGGCCAAAAATAGCAGATCCAGATGCTGTCAAGCCAGATG
ACTGGGATGAAGACGCCCTTCTAAGATCCCAGATGAAGAGGCCACCAAGCCTGAAGGCTGGCTAGACGA
CGAACCTGAGTATATCCAGACCCTGATGCAGAGAAGCCAGAGGATTGGGATGAGGATATGGACGGAGAA
TGGGAGGCTCCTCAGATTGCCAACCCCAAGTGTGAGTCAGCCCTGGGTGTGGTGTCTGGCAGCGACCTA
TGATTGACAACCCCAATTATAAGGGCAAATGGAAGCCTCCAATGATTGACAACCCTAACCTACCAGGGAAT
CTGGAAACCAAGGAAAATACCAAATCCAGATTTCTTTGAAGACCTAGAACCTTTTAAGATGACTCCTTTC
AGTGCTATTGGTTTGGAGCTCTGGTCCATGACATCCGACATCTTTTTTGAACAACCTTATCATTAGTGGTG
ACCGAAGAGTAGTTGATGATTGGGCCAATGATGGGTGGGGCTGAAGAAAGCTGCTGATGGGGCTGCTGA
GCCAGGTGATGCTGCAGATGCTGGAGGCAGCTGAAGAGCGTCCATGGCTTTGGGTGGTCTACATTTTG
ACTGTAGCTTTGCCAGTGTCTTGTGATCCTCTTCTGCTGTTCTGAAAGAAACAGTCCAATGCTATGG
AGTACAAGAAGACGGATGCTCCCCAGCCAGATGTGAAGGATGAAGAAGGGAAGGAAGAAGAAGAACAA
GAGGGATGAAGAGGAAGAAGAGGAGAAGCTTGAAGAGAAACAGAAAGTGTGCTGAAGAAGATGGTGT
ACTGGCAGTCAAGATGAGGAAGTAGCAAGCCTAAAGCAGAGGAGGATGAAATTTTGAACAGATCGCCAA
GAAACAGAAAGCCACGAAGAGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007597

Insert Size: 1776 bp

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:

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_007597.3](#), [NP_031623.1](#)

RefSeq Size: 4292 bp

RefSeq ORF: 1776 bp

Locus ID: 12330

UniProt ID: [P35564](#)

Cytogenetics: 11 30.46 cM

Gene Summary: Calcium-binding protein that interacts with newly synthesized glycoproteins in the endoplasmic reticulum. It may act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. It seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins. Associated with partial T-cell antigen receptor complexes that escape the ER of immature thymocytes, it may function as a signaling complex regulating thymocyte maturation. Additionally it may play a role in receptor-mediated endocytosis at the synapse.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.