

## Product datasheet for **MR225122**

### Canx (NM\_001110500) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Canx (NM_001110500) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Canx
Synonyms:	1110069N15Rik; AI988026; Cnx; D11Erttd153e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR225122 representing NM\_001110500  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGGAAGTGGTTACTGTGTTGCTGCTGGTCTTGAAGTGCAGCTGTTGAGGCTCATGATGGAC  
 ATGATGATGACGCGATTGATATTGAAGATGATCTTGATGATGTTATTGAAGAGGTAGAAGATTCAAATC  
 TAAATCAGATGCCAGCACTCCTCCATCTCCAAAGTCCACACAAAGCTCCAGTTCCAACAGGGGAGGTT  
 TATTTTGTGACTCCTTTGACAGAGGCTCTGTGAGGGTGGATTTTATCTAAAGCCAAAAAAGATGACA  
 CTGATGATGAAATTGCCAAATATGATGGAAAGTGGGAAGTAGATGAGATGAAGGAAACAAAGCTTCCAGG  
 GGATAAAGGACTTGTACTGATGTCTCGGGCCAAGCATCATGCCATCTCTGCTAAACTGAATAAGCCCTTC  
 CTGTTTGATACCAAGCCTCCTATTGTTTCAGTATGAGGTTAATTTTCAGAATGGAATAGAATGTGGTGGT  
 CCTATGTGAAGCTGCTTCCAAGACGGCAGAGCTCAGCCTGGATCAATCCACGACAAGACTCCCTATAC  
 TATTATGTTTGGTCCAGATAAGTGTGGAGAGGACTACAACTGCATTTTCATCTTTTCGACACAAAAATCCC  
 AAGACAGGTGTATATGAAGAAAAACATGCTAAGAGGCCAGATGCAGATCTGAAGACCTATTTCACTGACA  
 AGAAAAACGCATCTTTATACATTAATCTTGAATCCAGACAATAGTTTTGAAATATTAGTTGACCAGTCTGT  
 TGTGAACAGTGGAAATCTGCTAAATGACATGACTCCTCTGTAAACCTTCACGTGAAATTGAAGACCCA  
 GAAGACCGGAAGCCTGAAGATTGGGATGAAAGGCCAAAAATAGCAGATCCAGATGCTGTCAAGCCAGATG  
 ACTGGGATGAAGACGCCCTTCTAAGATCCCAGATGAAGAGGCCACCAAGCCTGAAGGCTGGCTAGACGA  
 CGAACCTGAGTATATCCAGACCCTGATGCAGAGAAGCCAGAGGATTGGGATGAGGATATGGACGGAGAA  
 TGGGAGGCTCCTCAGATTGCCAACCCCAAGTGTGAGTCAAGCCCTGGGTGTGGTGTCTGGCAGCGACCTA  
 TGATTGACAACCCCAATTATAAGGGCAAATGGAAGCCTCCAATGATTGACAACCCCAACTACCAGGGAAT  
 CTGGAAACCAAGGAAAAATACCAATCCAGATTTCTTTGAAGACCTAGAACCTTTTAAGATGACTCCTTTTC  
 AGTGCTATTGGTTGGAGCTCTGGTCCATGACATCCGACATCTTTTTTGACAACCTTATCATTAGTGGTG  
 ACCGAAGAGTAGTTGATGATTGGGCAATGATGGGTGGGGCTGAAGAAAGCTGCTGATGGGGCTGCTGA  
 GCCAGGTGATGCTGCAGATGCTGGAGGCAGCTGAAGAGCGTCCATGGCTTTGGGTGGTCTACATTTTG  
 ACTGTAGCTTTGCCAGTGTCTTGTGATCCTCTTCTGCTGTTCTGAAAAGAAACAGTCCAATGCTATGG  
 AGTACAAGAAGACGGATGCTCCCAGCCAGATGTGAAGGATGAAGAAGGGAAGGAAGAAGAAGAACAA  
 GAGGGATGAAGAGGAAGAAGAGGAGAAGCTTGAAGAGAAAACAGAAGATGATGCTGAAGAAGATGGTGT  
 ACTGGCAGTCAAGATGAGGAAGATAGCAAGCCTAAAGCAGAGGAGGATGAAATTTTGAACAGATCGCCAA  
 GAAACAGAAAGCCACGAAGAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225122 representing NM\_001110500  
 Red=Cloning site Green=Tags(s)

MEGWLLCLLLVLGTAAVEAHDGHDDDAIDIEDDLDDVIEEVEDSKSKSDASTPPSPKVITYKAPVPTGEV  
 YFADSFDRGSLSGWILSKAKKDDTDEEIAKYDGKWEVDEMKETKLPDGKGLVLMRAKHHAISAKLNKPF  
 LFDTKPLIVQYEVNFQNGIECGGAYVKLLSKTAELESLDQFHDKTPYTIMFGPDKCGEDYKLFIFRHKNP  
 KTGYYEEKHAKRPDADLKTYFTDKKTHLYTLILNPDNSFEILVDQSVVNSGNLLNDMTPPVNPSREIEDP  
 EDRKPEDWDERPKIADPDAVKPDDWDEDAPSKIPDEEATKPEGLDDEPEYIPDPDAEKPEDWDEDMDGE  
 WEAPQIANPKCESAPGCGVWQRPMDNPNYKWKWPPMIDNPNYQGIWKPRKIPNPDFFEDLEPFKMPF  
 SAIGLELWSMTSDIFDNFIISGDRRVVDDWANGWGLKKAADGAAEPGVVLQMLEAAEERPWLWVYVIL  
 TVALPVFLVILFCCSGKKQSNAMKEYKTDAPQPDVKDEEGKEEENKRRDEEEEEKLEEKQKSDAEEDGV  
 TGSQDEEDSKPKAEDEILNRSRNRKPRRE

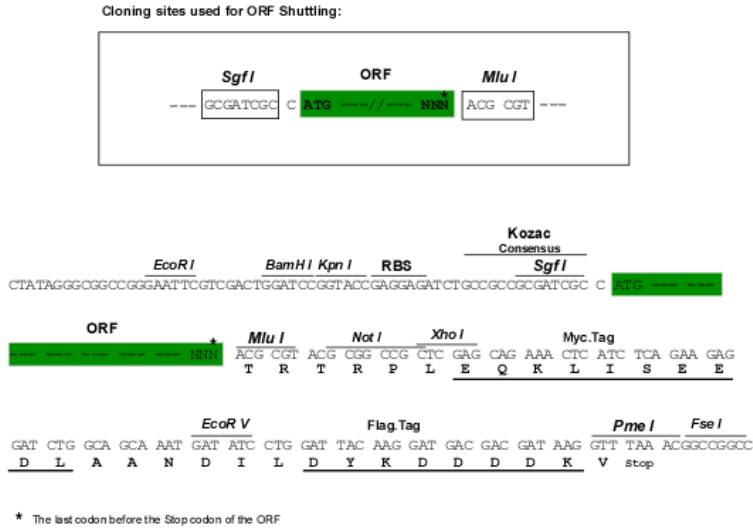
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9014\\_g08.zip](https://cdn.origene.com/chromatograms/mm9014_g08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001110500

ORF Size: 1773 bp

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: [NM\\_001110500.1](#), [NP\\_001103970.1](#)

RefSeq Size: 4256 bp

RefSeq ORF: 1776 bp

Locus ID: 12330

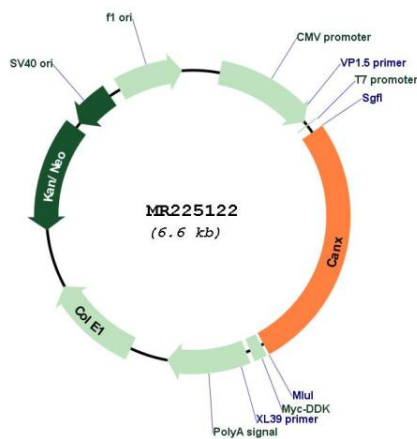
UniProt ID: [P35564](#)

Cytogenetics: 11 30.46 cM

MW: 67.7 kDa

**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]

**Product images:**



Circular map for MR225122