

Product datasheet for **MR223551**

Canx (NM_007597) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Canx (NM_007597) 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)



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ORF Nucleotide Sequence:

>MR223551 representing NM_007597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGGGAAGTGGTTACTGTGTTTCTGCTGGTCTTGAAGTGCAGCTGTTGAGGCTCATGATGGAC
 ATGATGATGACGCGATTGATATTGAAGATGATCTTGATGATGTTATTGAAGAGGTAGAAGATTCAAATC
 TAAATCAGATGCCAGCACTCCTCCATCTCCAAAGTCCACACAAAGCTCCAGTTCCAACAGGGGAGGTT
 TATTTTGTGACTCCTTTGACAGAGGCTCTGTGAGGGTGGATTTTATCTAAAGCCAAAAAAGATGACA
 CTGATGATGAAATTGCCAAATATGATGGAAAGTGGGAAGTAGATGAGATGAAGGAAACAAAGCTTCCAGG
 GGATAAAGGACTTGTACTGATGTCTCGGGCCAAGCATCATGCCATCTCTGCTAACTGAATAAGCCCTTC
 CTGTTTGATACCAAGCCTCTCATTGTTCCAGTATGAGGTTAATTTTTCAGAAATGAATAGAATGTGGTGGT
 CCTATGTGAAGCTGCTTCCAAGACGGCAGAGCTCAGCCTGGATCAATCCACGACAAGACTCCCTATAC
 TATTATGTTTGGTCCAGATAAGTGTGGAGAGGACTACAACTGCATTTTCATCTTTTCGACACAAAAATCCC
 AAGACAGGTGTATATGAAGAAAAACATGCTAAGAGGCCAGATGCAGATCTGAAGACCTATTTCACTGACA
 AGAAAAACGCATCTTTATACATTAATCTTGAATCCAGACAATAGTTTTGAAATATTAGTTGACCAGTCTGT
 TGTGAACAGTGGAAATCTGCTAAATGACATGACTCCTCTGTAAACCTTCACGTGAAATTGAAGACCCA
 GAAGACCGGAAGCCTGAAGATTGGGATGAAAGGCCAAAAATAGCAGATCCAGATGCTGTCAAGCCAGATG
 ACTGGGATGAAGACGCCCTTCTAAGATCCCAGATGAAGAGGCCACCAAGCCTGAAGGCTGGCTAGACGA
 CGAACCTGAGTATATCCAGACCCTGATGCAGAGAAGCCAGAGGATTGGGATGAGGATATGGACGGAGAA
 TGGGAGGCTCCTCAGATTGCCAACCCCAAGTGTGAGTCAAGCCCTGGGTGTGGTGTCTGGCAGCGACCTA
 TGATTGACAACCCCAATTATAAGGGCAAATGGAAGCCCTCAATGATTGACAACCCCAACTACCAGGGAAT
 CTGGAAACCAAGGAAAAATACCAATCCAGATTTCTTTGAAGACCTAGAACCCTTTAAGATGACTCCTTTTC
 AGTGCTATTGGTTTGGAGCTCTGGTCCATGACATCCGACATCTTTTTTGAACAACCTTATCATTAGTGGTG
 ACCGAAGAGTAGTTGATGATTGGGCAATGATGGGTGGGGCTGAAGAAAGCTGCTGATGGGGCTGCTGA
 GCCAGGTGATGCTGCAGATGCTGGAGGCAGCTGAAGAGCGTCCATGGCTTTGGGTGGTCTACATTTTG
 ACTGTAGCTTTGCCAGTGTCTCTGTGATCCTCTTCTGCTGTTCTGAAAAGAAACAGTCCAATGCTATGG
 AGTACAAGAAGACGGATGCTCCCAGCCAGATGTGAAGGATGAAGAAGGGAAGGAAGAAGAAGAACAA
 GAGGGATGAAGAGGAAGAAGAGGAGAAGCTTGAAGAGAAAACAGAAGATGATGCTGAAGAAGATGGTGT
 ACTGGCAGTCAAGATGAGGAAGATAGCAAGCCTAAAGCAGAGGAGGATGAAATTTTGAACAGATCGCCAA
 GAAACAGAAAGCCACGAAGAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223551 representing NM_007597
 Red=Cloning site Green=Tags(s)

MEGWLLCLLLVLGTAAVEAHDGHDDDAIDIEDDLDDVIEEVEDSKSKSDASTPPSPKVITYKAPVPTGEV
 YFADSFDRGSLSGWILSKAKKDDTDEEIAKYDGKWEVDEMKETKLPDGKGLVLMRAKHHAISAKLNKPF
 LFDTKPLIVQYEVNFQNGIECGGAYVKLLSKTAELESLDQFHDKTPYTIMFGPDKCGEDYKLFIFRHKNP
 KTGYYEEKHAKRPDADLKTYFTDKKTHLYTLILNPDNSFEILVDQSVVNSGNLLNDMTPPVNPSREIEDP
 EDRKPEDWDERPKIADPDAVKPDDWDEDAPSKIPDEEATKPEGWLDDEPEYIPDPDAEKPEDWDEDMDGE
 WEAPQIANPKCESAPGCGVWQRPMDNPNYKWKWPPMIDNPNYQGIWKPRKIPNPDFFEDLEPFKMPF
 SAIGLELWSMTSDIFDNFIISGDRRVVDDWANGWGLKKAADGAAEPGVVLQMLEAAEERPWLWVVYIL
 TVALPVFLVILFCCSGKKQSNAMKEYKTDAPQPDVKDEEGKEEENKRRDEEEEEKLEEKQKSDAEEDGV
 TGSQDEEDSKPKAEDEILNRSRNRKPRRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3120_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007597

ORF Size: 1776 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: 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_007597.3](#), [NP_031623.1](#)

RefSeq Size: 4292 bp

RefSeq ORF: 1776 bp

Locus ID: 12330

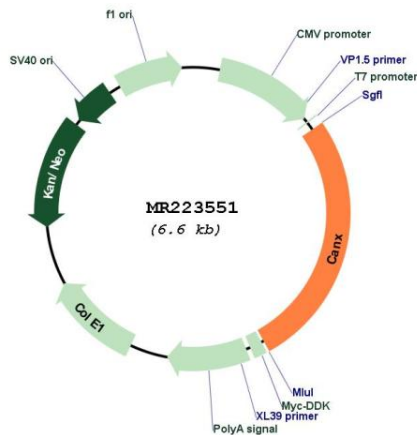
UniProt ID: [P35564](#)

Cytogenetics: 11 30.46 cM

MW: 67.3 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 MR223551