

Product datasheet for **MG225122**

Canx (NM_001110500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Canx (NM_001110500) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Canx
Synonyms:	1110069N15Rik; AI988026; Cnx; D11Erttd153e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225122 representing NM_001110500
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGGAAGTGGTTACTGTGTTGCTGCTGGTCTTGAAGTGCAGCTGTTGAGGCTCATGATGGAC
 ATGATGATGACGCGATTGATATTGAAGATGATCTTGATGATGTTATTGAAGAGGTAGAAGATTCAAATC
 TAAATCAGATGCCAGCACTCCTCCATCTCCAAAGTCCACACAAAGCTCCAGTTCACACAGGGGAGGTT
 TATTTTGTGACTCCTTTGACAGAGGCTCTGTGAGGGTGGATTTTATCTAAAGCCAAAAAAGATGACA
 CTGATGATGAAATTGCCAAATATGATGGAAAGTGGGAAGTAGATGAGATGAAGGAAACAAAGCTTCCAGG
 GGATAAAGGACTTGTACTGATGTCTCGGGCCAAGCATCATGCCATCTCTGCTAACTGAATAAGCCCTTC
 CTGTTTGATACCAAGCCTCTCATTGTTCCAGTATGAGGTTAATTTTCAGAATGGAATAGAATGTGGTGGT
 CCTATGTGAAGCTGCTTCCAAGACGGCAGAGCTCAGCCTGGATCAATCCACGACAAGACTCCCTATAC
 TATTATGTTTGGTCCAGATAAGTGTGGAGAGGACTACAACTGCATTTTCATCTTTTCGACACAAAAATCCC
 AAGACAGGTGTATATGAAGAAAAACATGCTAAGAGGCCAGATGCAGATCTGAAGACCTATTTCACTGACA
 AGAAAAACGCATCTTTATACATTAATCTTGAATCCAGACAATAGTTTTGAAATATTAGTTGACCAGTCTGT
 TGTGAACAGTGGAAATCTGCTAAATGACATGACTCCTCTGTAAACCTTCACGTGAAATTGAAGACCCA
 GAAGACCGGAAGCCTGAAGATTGGGATGAAAGGCCCAAAATAGCAGATCCAGATGCTGTCAAGCCAGATG
 ACTGGGATGAAGACGCCCTTCTAAGATCCCAGATGAAGAGGCCACCAAGCCTGAAGGCTGGCTAGACGA
 CGAACCTGAGTATATCCAGACCCTGATGCAGAGAAGCCAGAGGATTGGGATGAGGATATGGACGGAGAA
 TGGGAGGCTCCTCAGATTGCCAACCCCAAGTGTGAGTCAAGCCCTGGGTGTGGTGTCTGGCAGCGACCTA
 TGATTGACAACCCCAATTATAAGGGCAAATGGAAGCCTCCAATGATTGACAACCCCAACTACCAGGGAAT
 CTGGAAACCAAGGAAAAATACCAATCCAGATTTCTTTGAAGACCTAGAACCCTTTTAAGATGACTCCTTTC
 AGTGCTATTGTTTGGAGCTCTGGTCCATGACATCCGACATCTTTTTTGACAACCTTATCATTAGTGGTG
 ACCGAAGAGTAGTTGATGATTGGGCAATGATGGGTGGGCTGAAGAAAGCTGCTGATGGGGCTGCTGA
 GCCAGGTGATGCTGCAGATGCTGGAGGCAGCTGAAGAGCGTCCATGGCTTTGGGTGGTCTACATTTTG
 ACTGTAGCTTTGCCAGTGTCTTGTGATCCTCTTCTGCTGTTCTGAAAAGAAACAGTCCAATGCTATGG
 AGTACAAGAAGACGGATGCTCCCAGCCAGATGTGAAGGATGAAGAAGGGAAGGAAGAAGAAGAACAA
 GAGGGATGAAGAGGAAGAAGAGGAGAAGCTTGAAGAGAAAACAGAAGATGATGCTGAAGAAGATGGTGT
 ACTGGCAGTCAAGATGAGGAAGATAGCAAGCCTAAAGCAGAGGAGGATGAAATTTTGAACAGATCGCCAA
 GAAACAGAAAGCCACGAAGAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225122 representing NM_001110500
 Red=Cloning site Green=Tags(s)

MEGWLLCLLLVLGTAAVEAHDGHDDDAIDIEDLDDVIEEVEDSKSKSDASTPPSPKVITYKAPVPTGEV
 YFADSFDRGSLSGWILSKAKKDDTDEIAKYDGKWEVDEMKETLPGDKGLVLSRAKHHAISAKLNKPF
 LFDTKPLIVQYEVNFQNGIECGGAYVKLLSKTAELESLDQFHDKTPYTIMFGPDKCGEDYKLFIFRHKNP
 KTGVEEYKHKRPPADLKYFTDKKTHLYTLILNPDNSFEILVDQSVVNSGNLLNDMTPPVNPSREIEDP
 EDRKPEDWDERPKIADPDAVKPDDWEDAPSKIPDEEATKPEGWLDDEPEYIPDPDAEKPEDWDEDMGE
 WEAPQIANPKCESAPGCGVWQRPIDNPNYKWKWPPMIDNPNYQGIWKPRKIPNPDFFEDLEPFKMPF
 SAIGLELWSMTSDIFFDNFIIISGDRRVVDDWANDGWGLKKAADGAAEPGVVLQMLEAAEERPWLVVYIIL
 TVALPVFLVILFCCSGKKQSNAMYKKTDPQPDYKDEEGKEEKNRDEEEEEKLEEKQKSDAEEDGV
 TGSQDEEDSKPKAEDEILNRSRNRKPRRE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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:	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
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]