

Product datasheet for **RR210277**

Canx (NM_172008) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Canx (NM_172008) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Canx
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210277 representing NM_172008
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGGAAGTGGTTACTGTGTTGCTACTGGTCTTGAAGTGCAGCTATTCAGGCTCATGATGGAC
 ATGATGATGACATGATTGATATTGAAGATGATCTTGATGATGTTATCGAAGAGGTAGAAGATTCAAATC
 TAAATCAGATACCAGCACTCCTCCATCTCCAAAGTCCACCTACAAAGCTCCAGTTCACACAGGGGAGGTT
 TATTTTGTGCTACTCCTTTGACAGAGGCTCTGTGAGGGTGGATTTTATCTAAAGCCAAAAAGACGACA
 CTGATGATGAAATTGCCAAATAGACGGAAAGTGGGAGGTAGATGAAATGAAGGAAACAAAGCTTCCAGG
 TGATAAAGGACTTGATTGATGTCTCGGGCCAAGCATCATGCCATCTCTGCTAAACTGAACAAGCCCTTC
 CTGTTTGATACCAAGCCTCATTGTTTCAGTATGAGGTTAACTTTCAGAATGGAATAGAATGCGGTGGT
 CCTACGTGAAGCTGCTATCCAAGACCTCAGAACTCAACCTGGATCAATCCACGACAAGACTCCGTATAC
 TATTATGTTTGGTCCAGATAAATGTGGAGAGGACTACAACTGCATTTTCATCTTTGCGCCAAAAACCCC
 AAGACAGGTGTATATGAAGAAAAACATGCTAAGAGGCCAGATGCAGATCTGAAGACCTATTTCACTGACA
 AGAAAAACACATCTTTACACATTAATCTTGAATCCAGACAATAGTTTTGAAATATTAGTTGACCAGTCTGT
 TGTGAACAGTGGAAACCTGCTAAATGACATGACCCCTCCGGTAAACCTTCACGTGAAATTGAGGACCCA
 GAAGACCGGAAGCCTGAAGATTGGGATGAAAGGCCAAAAATAGCAGATCCAGATGCTGTCAAGCCAGATG
 ACTGGGATGAAGATGCCCTTCTAAGATTCCAGATGAAGAGGCCACAAAGCCTGAAGGCTGGTTAGATGA
 TGAACCGAGTATATCCAGACCCTGATGCAGAGAAACAGAAGATTGGGATGAGGATATGGACGGAGAA
 TGGGAGGCTCCTCAGATTGCCAACCTAAGTGTGAGTCCGCCCTGGGTGTGGTGTCTGGCAGCGACCTA
 TGATTGACAACCCCAATTATAAGGGCAAATGGAAGCCTCCTATGATTGACAATCCTAACTACCAGGGAAT
 CTGGAAACCAAGGAAAAATACAAATCCAGATTTCTTTGAAGACCTGGAACCTTTTAGGATGACTCCTTTC
 AGCGCTATTGGTTTGGAGCTCTGGTCCATGACATCCGACATCTTTTTGACAACCTTATCATTAGTGGTG
 ACCGAAGAGTAGTTGATGACTGGGCAATGATGGGTGGGCTGAAGAAAGCTGCTGATGGGGCTGCAGA
 GCCAGGTGATGTTGGGCGAGTCTGGAGGCAGCTGAAGAGCGTCCATGGCTTTGGGTGGTCTACATTCTG
 ACTGTAGCGTTGCCAGTGTCTTGTGATCCTCTTCTGCTGTTCTGAAAAGAAACAGTCCAATGCTATGG
 AGTACAAGAAGACAGATGCTCCCAGCCAGATGTGAAGGACGAAGAAGGGAAGGAAGAAGAAGAACAA
 GGGAGATGAAGAGGAAGAAGAGGAGAAGCTTGAAGAGAAACAGAAGAGTGTGCTGAAGAAGATGGTGGC
 ACTGGCAGTCAAGATGAGGAAGTAGCAAGCCTAAAGCAGAGGAGGATGAAATTTTGAACAGATCACCAA
 GAAACAGAAAGCCACGAAGAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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MEGKWLCLLLVLGTAAIQAHDGHDDMIDIEDLDDVIEEVEDSKSKSDTSTPPSPKVYKAPVPTGEV
 YFADSFDRGSLSGWILSKAKKDDTDEIAKYDQKWEVDEMKETKLPDGLVLMRAKHHAISAKLNKPF
 LFDTKPLIVQYEVNFQNGIECGGAYVKLLSKTSELNLDQFHDKTPYTIMFGPDKCGEDYKLFIFRHKNP
 KTVVYEEKHAKRPDADLKYFTDKKTHLYTLILNPDNSFEILVDQSVVNSGNLLNDMTPPVNPSREIEDP
 EDKRPEDWDERPKIADPDAVKPDDWEDAPSKIPDEEATKPEGWLDDEPEYIPDPDAEKPEDWDEMDGE
 WEAPQIANPKCESAPGCGVWQRPIDNPNYKWKPPMIDNPNYQGIWKPRKIPNPDFFEDLEPFRMTPF
 SAIGLELWSMTSDIFFDNFIISGDRRVVDDWANDGWGLKKAADGAAEPGVVQMLEAAEERPWLVVYIIL
 TVALPVFLVILFCCSGKKQSNAMKEYKTDAPQPDVKDEEGKEEKNKGDEEEEEKLEEKQKSDAEEDGG
 TGSQDEEDSKPKAEDEILNRSRNRKPRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

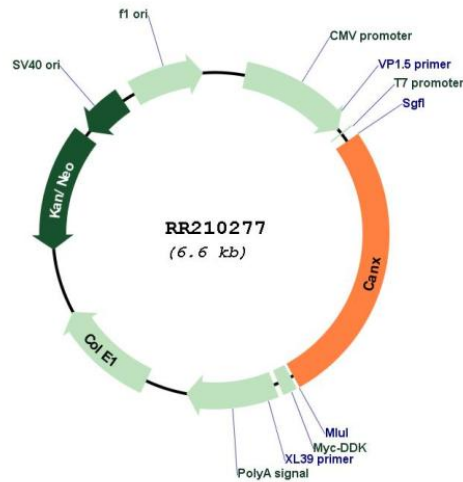
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_172008

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:	<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_172008.2 , NP_742005.1
RefSeq Size:	4986 bp
RefSeq ORF:	1776 bp
Locus ID:	29144
UniProt ID:	P35565
Cytogenetics:	10q22
MW:	67.3 kDa
Gene Summary:	calcium-binding protein that may serve to chaperone proteins from the ER to outer cellular membrane [RGD, Feb 2006]