

Product datasheet for **SC106380**

NCALD (NM_032041) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCALD (NM_032041) Human Untagged Clone
Tag:	Tag Free
Symbol:	NCALD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC106380 sequence for NM_032041 edited (data generated by NextGen Sequencing)

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ATGGGGAAACAGAACAGCAAGCTGCGCCCGGAGGTCATGCAGGACTTGCTGGAAAGCACA  
GACTTTACAGAGCATGAGATCCAGGAATGGTATAAAGGCTTCTTGAGAGACTGCCCCAGT  
GGACATTTGTCAATGGAAGAGTTAAGAAAATATATGGGAACTTTTTCCCTTATGGGGAT  
GCTTCCAAATTTGCAGAGCATGTCTCCGCACCTTCGATGCAAATGGAGATGGGACAATA  
GACTTTAGAGAATTCATCATCGCCTTGAGTGAACTTCGAGGGGGAAGCTGGAGCAGAAG  
CTGAAATGGGCCTTCAGCATGTACGACCTGGACGGAAATGGCTATATCAGCAAGGCAGAG  
ATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTGTAATGAAATGCCTGAA  
GATGAGTCAACCCAGAGAAAAGAACAGAAAAGATCTCCGCCAGATGGACACCAATAGA  
GACGGAAAACCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAAGCGACCCGTCATTGTG  
CGCCCCCTGCAGTGCACCCGAGCAGTGCCGGCCAGTTCTGA
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Clone variation with respect to NM_032041.2
545 t=>c



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032041 unedited AGTATATTTGTATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGCCTCGTGCC GAATTCGGCAGGAGGTGAGAATCTGGTGGATGCTGGACCTTGCTGCTGCTACTGCTG TTTCCAGGGGCTGCAGAGCATGGACTGTTAAATCTTGCACTTCTTCTGAGTGAGCTGAAT TCTTGCCGCCAGGATGGGAAACAGAACAGCAAGCTGCGCCCGGAGGTCATGCAGGACTT GCTGAAAAGCACAGACTTTACAGAGCATGAGATCCAGGAATGGTATAAAGGCTTCTTGAG AGACTGCCCCAGTGGACATTTGTCAATGGAAGAGTTTAAGAAAAATATATGGGAACTTTTT CCCTTATGGGGATGCTTCCAATTTGCAGAGCATGTCTTCCGCACCTTCGATGCAAATGG AGATGGGACAATAGACTTTAGAGAATTCATCATCGCCTTGAGTGTAACTTCGAGGGGAA GCTGGAGCAGAAGCTGAAATGGGCCTTCAGCATGTACGACCTGNACGGAAATGGCTATAT CAGCAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTGTATT GAAAATGCCTGAAGATGAGTCAACCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAGAT GGACACCAATAGAGACGGAAAACCTCCCTGNAAGAGTTCATCCCGAGAGCCAAAAGCGA CCCGTCCATTGTGCGCCCTGCAGTGCACCCGAGCAGTGCCCGGCCAGTTCTGACCCC TGCGCCACCCATCCGAATTGTAGAGCTGCTTGGGTTCCCTTTTGATTCTCTTTTAAACA ATTTTTTTTTTTTTTTGGCAAACAAAACAATGTGGAAGCCGTCCTGTGCGGTCTGATG CCCTTTCTTCGGGAACCCCTAACCTTCTTTTGTGCGGGGAGC
Restriction Sites:	NotI-NotI
ACCN:	NM_032041
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:	<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_032041.1 , NP_114430.1
RefSeq Size:	3300 bp
RefSeq ORF:	582 bp
Locus ID:	83988
UniProt ID:	P61601
Cytogenetics:	8q22.3
Domains:	EFh

Gene Summary:

This gene encodes a member of the neuronal calcium sensor (NCS) family of calcium-binding proteins. The protein contains an N-terminal myristoylation signal and four EF-hand calcium binding loops. The protein is cytosolic at resting calcium levels; however, elevated intracellular calcium levels induce a conformational change that exposes the myristoyl group, resulting in protein association with membranes and partial co-localization with the perinuclear trans-golgi network. The protein is thought to be a regulator of G protein-coupled receptor signal transduction. Several alternatively spliced variants of this gene have been determined, all of which encode the same protein; additional variants may exist but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (8) differs in the 5' UTR compared to variant 1.