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Product datasheet for RG221428

NCALD (NM_001040624) Human Tagged ORF Clone

Product data:

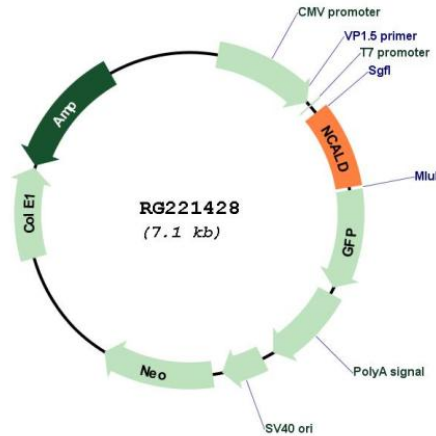|	
Product Type:	Expression Plasmids
Product Name:	NCALD (NM_001040624) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NCALD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221428 representing NM_001040624 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGGAAACAGAACAGCAAGCTGCGCCCGGAGGTCATGCAGGACTTGCTGGAAAGCACAGACTTTACAG AGCATGAGATCCAGGAATGGTATAAAGGCTTCTTGAGAGACTGCCCCAGTGGACATTTGTCAATGGAAGA GTTTAAGAAAATATATGGGAACTTTTTCCCTTATGGGGATGCTTCCAAATTTGCAGAGCATGTCTTCCGC ACCTTCGATGCAAATGGAGATGGGACAATAGACTTTAGAGAATTCATCATCGCCTTGAGTGTAACTTCGA GGGGGAAGCTGGAGCAGAAGCTGAAATGGGCCTTCAGCATGTACGACCTGGACGGAAATGGCTATATCAG CAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTGTAATGAAAATGCCTGAA GATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCAATAGAGACGGAAAAC TCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAAGCGACCCGTCCATTGTGCGCCTCCTGCAGTGCGACCC GAGCAGTGCCGGCCAGTTC ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA
Protein Sequence:	>RG221428 representing NM_001040624 Red=Cloning site Green=Tags(s) MGKQNSKLRPEVMQDLLESTDFTEHEIQEWYKGFLRDCPSGHLSMEEFKKIYGNFFPYGDASKFAEHVFR TFDANGDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLDGNGYISKAEMLEIVQAIYKMVSSVMKMPE DESTPEKRTEKIFRQMDTNRDGKLSLEEFIRGAKSDPSIVRLLQCDPSSAGQF TRTRPLE – GFP Tag – V
Restriction Sites:	SgfI-MluI

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Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf I	ORF	Mlu I
--- GCGATCGC C	ATG ---//--- NNN	ACG CGT ---

Kozac Consensus

EcoR I	BamH I Kpn I	RBS	Sgf I	Asc I

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGCGCCAGATCT

Hind III	Nhe I	Rsr II	Mlu I		Not I	Xho I		GFP Tag

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
　　　　　　　　　　　　　　　　T　　R　　T　　R　　P　　L　　E　　M　　E　　S　　D　　-　　-　　-

			Pme I	Fse I	

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
　-　　-　　E　　E　　R　　V　　Stop

Plasmid Map:

RG221428
(7.1 kb)

ACCN:	NM_001040624
ORF Size:	579 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_001040624.1, NP_001035714.1
RefSeq Size:	3760 bp
RefSeq ORF:	582 bp
Locus ID:	83988
UniProt ID:	P61601
Cytogenetics:	8q22.3
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]