

Product datasheet for **RC228685**

NACAD (NM_001146334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NACAD (NM_001146334) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NACAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228685 representing NM_001146334 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCTGGGGAGGCTGCCCGCGCCGAGCTGCTGCTGCCCGAGGCGGACCGACCCGGGCCCGCACAGATC
TGTCCTGCGATGCGGCCGCTGCCACCACCATCCTGGGAGGGGACCGCGGGAGCCCTGTGCTCTGACCCC
AGGGCCCAGCCACCTGGCCCTCACGTTCTGCCCAGCAAGCCGGGTGCCCGGCCCGAGCCGAGGGAGCC
AGCTGGGATGCAGGGCCTGGTGGGGCACCTCGGCCTGGGCGGACCCAGGGGAGGGCGGCCAAGCCCCA
TGCTCCTCCCTGAGGGCCTGTCTCCAGGCTCTGTCCACGGAGGCTCCTCTCCCGGCCACCTTGGAGCC
CCGGATTGTGATGGGAGAGGAGACGTGCCAGGCCCTCCTGTCAACCAGAGCTGCCCGACAGCGCTCAGG
GACCAGGAGGGTGGGCACGCAAGCCAGACCCACCCCCGAGCTGTGTTCTCAGGGTGATCTTTCTGTGC
CTTCCCCTCCCCAGACCCTGATTCTTCTTACGCCTCCCTCCACCCCCACCAAGACCACCTATGCCCT
GCTTCTGCCTGTGGGCCCCACGGGACGCCAGGACTCAGAGGCTGAGCTGCGGGATGAGCTGCTGGAC
TCGCCCCCGCCTCACCTCGGGCTCCTACATTACGGCCGATGGGGACAGCTGGGCCTCTTACCCTCCT
GTTCCCTCAGCCTGCTGGCTCCGGCTGAAGGGCTGGACTTCCCCTCAGGCTGGGGCTGTCCCCGAGGG
GTCCATGGTGGATGAACGAGAGCTGCACCCAGCAGGGACCCAGAGCCCCGTCCTCTGAGTCCAGCCTC
TCTGCAGACAGCAGCTCCTCCTGGGGCCAGGAGGGCCACTTCTTCGACCTGGACTTCTTGCCAATGACC
CAATGATCCCCGAGCCCTCCTACCTTCCAGGGCAGCCTCATCTTTCAGGTGGAGGCAGTGAGGTTGAC
ACCGCTATCCCCAGAGGAAGAAGAAGAGAGGGCTGTGGCGGATCCCGACCCAGGTGGGGACCTGGCTGGG
GAGGGTGAGGAGGACAGCACGTCTGCCTCCTTCTGCACTCACTGTCTGACCTGTCCATCACGGAGGGCA
TGGACGAGGCTTTTGCCTTCCGGGACGACACCTCTGCAGCCTCCTCTGATTACAGACTCAGCCTCCTACGC
AGAGGCAGATGATGAGAGGCTGTACAGCGGGGAGCCCCATGCCAGGCCACTTTGCTCCAGGACAGTGTC
CAGAAGACAGAGGAGGAGAGCGGAGGTGGGGCCAAGGGGCTGCAGGCTCAGGATGGGACTGTGCTCTGGG
CCGTGGAGGCTGCTCCTCAGACCTCAGACAGAGGGGCCTATCTGTCCCAGAGACAGGAATTGATCTCAGA
AGTAACAGAAGAGGGCCTTGTCTTAGGCCAGGAGTCCACTGCCACTGTGACCCCTCACACTCTGCAGTA
GCCCCAGGCCTCCAGGTGGAGGTGGCTACCAGAGTGACCCACAGGCTGGGGAGGAAGAACAACAGACTCCA
CCGCTGGACAAGAATCTGCTGCCATGGCAATGCCTCAGCCCTCCAGGAGGGCATCAGCGAGATCTTAGG



[View online »](#)

CCAAGAGTCTGTCACTGCAGAAAACTTCCAACCTCCACAGGAAGAAACAAGCCTCACATTGTGTCCAGAC
TCTCCTCAGAAGTTGAAGGAAGAAGGAGGGCTGGACCTCCCCTCTGGCAGAAAGCCTGTAGCTGCAGCCA
CGATTGTCCCCAGGCAGGCTAAAGAGGACCTCACCTTACCCAGGACTCCGCTATGACACCGCCTCTGCC
CCTACAAGACACAGATCTCTCATCAGCCCCAAAGCCTGTGGCTGCAGCCACGATTGTGTCCCAGCAGGCT
GAAGAGGGCCTCACCTTACCCAGGACTCCGTTATGACACCGCCTCTGCCCTACAAGACACAGAAGCTCT
CGTCAGCCCCAAAGCCTGTGGCTGCAGCCACGCTTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACC
CCAGGACTCCGCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTG
GCTGCAGCCACGCTTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCAGGACTCCGCTATGACAC
CGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTGGCTGCAGCCACGCTTGTGTG
CCAGCAGGCTGAAGAGGGCCTCACCTTACCCAGGACTCCGCTATGACACCGCCTCTGCCCTACAAGAC
ACAGATCTCTCGTCAGCCCCAAAGCCTGTGGCTGCAGCCACGATTGTGTCCCAGCAGGCTGAAGAGGGCC
TCACCTTACCCAGGACTCCGCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCC
AAAGCCTGTGGCTGCAGCCACGATTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCAGGACTCC
GCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTGGCTGCAGCCA
CGCCTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCAGGACTCCGCTATGACACCGCCTCTGCC
CCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTGGCTGCAGCCACGCTGTGTCCCAGCAGGCT
GAAGAGGGCCTCACCTTACCCAGGACTCCGCTATGACAGCACCTCTGCCTCTGCAAGACACAGGCCCCA
CCTCAGGTCCAGAGCCTCTGGCTGTGGCCACCCCTCAAACCTTGACAGGAGAAGCAGGCTGTGCCCCAGG
GACAGAGCCTGTGGCCACCATGGCTCAGCAGGAAGTAGGTGAGGCCTTAGGCCCCAGGCCAGCACCTGAG
GAGAAGAATGCAGCCCTCCCTACAGTCCCGAGCCTGCAGCCTTGACACAGGTCCAACAGGATGACCCAC
AGCCAGCTGCAGAAGCTGGGACACCTTGGGCGCACAGGAAGATGCGGATTCCACTTTGGCATGGAGGC
CCTCAGTCTCCCTGAGCCGGCCTCTGGTCTGGGAGGAAATAGCAGAAGCCCTTTCTAGGCCTGGACGG
GAAGCATGTCTGGAAGCGCAGCGCACACAGGTGATGGGCTAAGCCTGACTACCCCCAAAGGAGACCC
TGGAGGTTGAGAACCAGCAGGAAGGAGGCCTGAAGCCACTGGCACAGGAACATGGACCCAGGTGAGCACT
TGGAGGTGCAAGGAGGTCCCCGATGCGCCTCCTGCTGCCTGCCCTGAGGTGAGCCAGGCCCGGCTCCTG
AGCCCAGCCAGGGAGGAAGAGGCCTGAGTGGCAAGTCCACCCGGAGGCCACGCTTCCCTCAGCTGTGG
CCACAGAGGCCAGTCTGGACTCTGCCAGAGTCTTCAAGTGGGCTGTGTCCAGTCTGGACAGAGGCTG
CCCTGACGCGCCTGCCCCACGTCTGCACCAACCTCCAGCAGCCGGAGCCTGTACTGGGCTGGGCAGT
GTTGAGCAACCCACGAAGTACCCAGTGTCTTGGCACCCCTTGCTGCAGCCCCAGAAAACCTTGCCA
AGGGTCAGCCAGCACGCCCCTGGACAGGCCCTGGGCCCTGACCCTTCTGCTCCTGGTACCCTTGTGG
GGCAGCCCTACCCCACTGGAGCCCCAGCCCCCTGCCTGTGCCAGGACCCCAAGAACTCTGTGGAA
GACGAGGAGCCCCAGGCTCTCTGGGCTCCACCGCCCCAGGCAGGAGTCCAGCCTGCCCTGTGCTGTG
TCTCAGGAACCACACAGCCTCTGGGACTGGGCCGCGAGTCAGCCTCTCGCCTCACTCCCCACTCCTCAG
CCCCAAGGTGGCCTCCATGGATGCCAAAGACCTGGCCTTGAGATCTTGGCGCCTTGCCAAGTGCCTCCT
CCCTCTGGGCCCCAGAGCCAGCTGGCCCTCAAGGGCTCTCAGCCCCGAGCAGCAAGAGGATGAGGACA
GCCTGGAGGAAGACTCGCTCGGGCCTGGGCTCGGGCCAGCATTCGGATAGCCACGGGGAGTCATCAGC
CGAGCTGGACGAGCAGGACATCTTGGCTCCTCAGACCGTGCAAGTGTCCAGCCAGGCCCAAGCAGGCGGC
AGTGAGGAGACCATCGCCAAAGCCAAGCAGAGTCGAGTGAGAAGAAGGCCCGAAAGGCAATGTCAAAGC
TGGGCTTGGCGCAGATTACGGGAGTCACCAGGATCACCATCCAGAAGTCCAAGAACATCCTTTGTGAT
CGCCAAGCCTGATGTCTTCAAGAGCCCAGCCTCAGACACTTATGTGGTCTTTGGCAGGCCAAGATTGAG
GACCTGTCCCAGCAAGTGACAAAGCCGAGCTGAGAAGTTTAAGGTGCCCTCAGAGCCCTCAGCCTTGG
TCCCTGAGTCAGCACCCAGGCCCGGGTGGAGTGGAGTGCAAGGAAGAGGAAGAGGAGGAGGAAGA
GGTGGACGAGGCGGGCTGGAAGTGCCTGACATTGAGTGGTGTGGCGCAGGCCAATGTGTCCAGGGCC
AAGGCCGTGCGGGCTCTGAGAGACAACCACAGTGACATCGTCAACGCCATCATGGAAGTACCATG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228685 representing NM_001146334
Red=Cloning site Green=Tags(s)

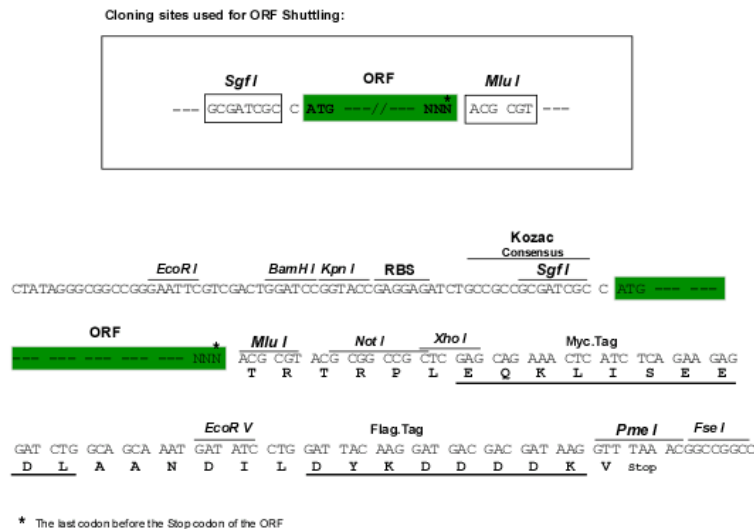
MPGEAARAELLPEADRPGRPTDLSCDAAAATTILGGDRREPCALTPGPSHLALTFLPSKPGARPQPEGA
SWDAGPGGAPSAWADPGEGGPSMILLPEGLSSQALSTEAPLPATLEPRIVMGEETCQALLSPRAARTALR
DQEGGHASPDPPPELCSQGDLSVSPPPDPDSFFTPPSTPTKTTYALLPACGPHGDARDSEAELRDELLD
SPPASPSGSYITADGDSWASSPSCSLSLLAPAEGLDFPSGWGLSPQGSMDERELHPAGTPEPPSSESSL
SADSSSSWGQEGHFFDLDFLANDPMIPAAALLPFQGSILFQVEAVEVTPLSPEEEEEEAADPDPGDLAG
EGEEDSTSASFQSLSDLSITEGMDEAFRRDDTSAASSSDSASAYAEADDERLYSGEPHAQATLLQDSV
QKTEESGGGAKGLQAQDGTVSWAVEAAPQTSRGAYLSQLQELISEVTEEGLALQQUESTATVTPHTLQV
APGLQVEVATRVTPQAGEEETDSTAGQESAAMAMPQPSQEGISEILQESVTAEKLPTEETSLLCPD
SPQNLKEEGGLDLPGRKPVAAATIVPRQAKEDLTLPQDSAMTPPLPLQDSDLSSAPKPVAAATIVSQQA
EEGLTLPQDSVMTPLPLQDTELSSAPKPVAAATLVSQQAEEGLTLPQDSAMTPPLPLQDSDLSSAPKPV
AAATLVSQQAEEGLTLPQDSAMTPPLPLQDSDLSSAPKPVAAATLVSQQAEEGLTLPQDSAMTPPLPLQD
TDLSSAPKPVAAATIVSQQAEEGLTLPQDSAMTPPLPLQDSDLSSAPKPVAAATIVSQQAEEGLTLPQDS
AMTPPLPLQDSDLSSAPKPVAAATPVSQQAEEGLTLPQDSAMTPPLPLQDSDLSSAPKPVAAATPVSQQA
EEGLTLPQDSAMTAPLPLQDTGPTSGPEPLAVATPQTLQAEAGCAPGTEPVATMAQQEVEGALGPRPAPE
EKNAALPTVPEPAALDQVQDDPQAAEAGTPWAAQEDADSTLGMELSLPEPASGAGEEIAELSRPGR
EACLEARHTGDGAKPDSPQKETLEVENQEGGLKPLAQEHGPRALGGAREVPDAPPAACEVVSQARLL
SPAREERGLSGKSTPEPTLPSAVATEASLDSCPESSVGA VSSLDRGCPDAPATSAPTSQQPEPVLGLGS
VEQPHEVPSVLGTPLLPENLAKGQSTPVDRPLGPDPSAPGTLAGAALPPEPPAPCLCQDPQEDSVE
DEEPPGSLGLPPPQAGVQAAAAVSGTTQPLGTGPRVSLSPHSPLSPKVASMDAKDLALQILPPCQVPP
PSGPQSPAGPQGLSAPEQQEDEDSEEDSPRALGSGQHSDSHGESSAELDEQDILAPQTVQCPAQAPAGG
SEETIAKAKQSRSEKKARKAMSKLGLRQIQGVTRITIQKSKNLFVIAKPDVFKSPASDITYVVFGEAKIE
DLSQQVHKAAAEEKFKVPSEPSALVPESAPRPRVRLCKEKEEEEEVEEAGLELRDIELVMAQANVSRA
KAVRALRDNHSDIVNAIMELTM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

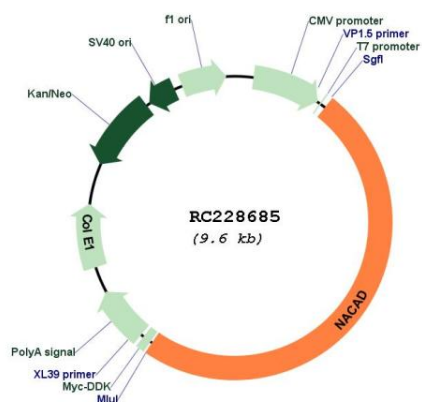


ACCN: NM_001146334

ORF Size: 4686 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001146334.2
RefSeq ORF:	4689 bp
Locus ID:	23148
UniProt ID:	O15069
Cytogenetics:	7p13
MW:	160.9 kDa
Gene Summary:	May prevent inappropriate targeting of non-secretory polypeptides to the endoplasmic reticulum (ER). May bind to nascent polypeptide chains as they emerge from the ribosome and block their interaction with the signal recognition particle (SRP), which normally targets nascent secretory peptides to the ER. May also reduce the inherent affinity of ribosomes for protein translocation sites in the ER membrane (M sites) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228685