

Product datasheet for **SC327320**

NACAD (NM_001146334) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NACAD (NM_001146334) Human Untagged Clone
Tag:	Tag Free
Symbol:	NACAD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001146334, the custom clone sequence may differ by one or more nucleotides

ATGCCTGGGAGGCTGCCGCGCCGAGCTGCTGCTGCCCCAGGCGGACCGACCCGGGCC
CGCACAGATCTGTCTGCGATGCGGCCGCTGCCACCATCCTGGAGGGGACCGGCGG
GAGCCCTGTGCTGTGACCCAGGGCCAGCCACCTGGCCCTCACGTTCTGCCCCAGCAAG
CCGGGTGCCCGGCCAGCCGAGGGAGCCAGCTGGGATGCAGGGCCTGGTGGGGACCC
TCGGCCTGGGCGGACCCAGGGGAGGGCGGCCAAGCCCCATGCTCCTCCTGAGGGCCTG
TCTTCCCAGGCTGTGCCAGGAGGCTCCTCTCCCGGCCACCTGGAGCCCCGGATTGTG
ATGGGAGAGGAGAGCTGCCAGGCCCTCTGTACCCAGAGCTGCCCGACAGCGCTCAGG
GACCAGGAGGGTGGGACGCAAGCCAGACCCACCCCCAGCTGTGTTCTCAGGGTGAT
CTTTCTGTGCCTTCCCCCCCCAGACCTGATTCCTTTCACGCCTCCCTCCACCCCC
ACCAAGACCACCTATGCCTGCTTCTGCTGTGGGCCCCAGGGGACGCCAGGGACTCA
GAGGCTGAGCTGCGGGATGAGCTGCTGGACTCGCCCCCGCCTCACCTCGGGCTCCTAC
ATTACGGCCGATGGGGACAGCTGGGCTCTTACCCTCCTGTTCCCTCAGCCTGTGGCT
CCGGCTGAAGGGCTGGACTTCCCTCAGGCTGGGGCTGTCCCGCAGGGGTCCATGGTG
GATGAACGAGAGCTGCACCCAGCAGGGACCCAGAGCCCCGTCCTCTGAGTCCAGCCTC
TCTGCAGACAGCAGCTCCTCCTGGGGCCAGGAGGGCCACTTCTCGACCTGGACTTCTG
GCCAATGACCCAATGATCCCCGAGCCCTCCTACCCTTCCAGGGCAGCCTCATCTTTCAG
GTGGAGGCAGTGGAGGTGACACCGCTATCCCCAGAGGAAGAAGAAGAGGAGGCTGTGGCG
GATCCCGACCCAGGTGGGGACCTGGCTGGGGAGGGTGAGGAGGACAGCACGTCTGCCTCC
TTCTGCACTGCTGTGACCTGTCCATCACGGAGGGCATGGACGAGGCTTTTGCTTC
CGGGACGACACCTCTGCAGCCTCCTCTGATTACAGACTCAGCCTCTACGAGAGGAGAT
GATGAGAGGCTGTACAGCGGGGAGCCCCATGCCAGGCCACTTTGCTCCAGGACAGTGTC
CAGAAGACAGAGGAGGAGAGCGGAGGTGGGGCCAAGGGGCTGCAGGCTCAGGATGGGACT
GTGTCTGGGCCGTGGAGGCTGCTCCTCAGACCTCAGACAGAGGGGCTATCTGTCCCAG
AGACAGGAATTGATCTCAGAAGTAACAGAAGAGGGCCTTGCTTTAGGCCAGGAGTCCACT
GCCACTGTGACCCCTCACACTCTGCAGGTAGCCCCAGGCCCTCAGGTGGAGGTGGCTACC
AGAGTGACCCACAGGCTGGGGAGGAAGAAACAGACTCCACCGCTGGACAAGAATCTGCT
GCCATGGCAATGCCTCAGCCCTCCAGGAGGGCATCAGCGAGATCTTAGGCCAAGAGTCT



[View online »](#)

GTACTCTGCAGAAAAAAGTCTTCAACTCCACAGGAAGAAACAAGCCTCACATGTGTCCAGAC
TCTCCTCAGAACTTTGAAGGAAGAAGGAGGGCTGGACCTCCCCTCTGGCAGAAAAGCCTGTA
GCTGCAGCCACGATTGTCCCCAGCAGGCTAAAGAGGACCTCACCTTACCCCAGGACTCC
GCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCATCAGCCCCAAAGCCTGTG
GCTGCAGCCACGATTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCCAGGACTCC
GTTATGACACCGCCTCTGCCCTACAAGACACAGAACTCTCGTCAGCCCCAAAGCCTGTG
GCTGCAGCCACGCTTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCCAGGACTCC
GCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTG
GCTGCAGCCACGCTTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCCAGGACTCC
GCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTG
GCTGCAGCCACGCTTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCCAGGACTCC
GCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTG
GCTGCAGCCACGATTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCCAGGACTCC
GCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTG
GCTGCAGCCACGATTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCCAGGACTCC
GCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTG
GCTGCAGCCACGCTTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCCAGGACTCC
GCTATGACACCGCCTCTGCCCTACAAGACACAGATCTCTCGTCAGCCCCAAAGCCTGTG
GCTGCAGCCACGCTTGTGTCCCAGCAGGCTGAAGAGGGCCTCACCTTACCCCAGGACTCC
GCTATGACAGCACCTCTGCCTCTGCAAGACACAGGCCCCACCTCAGGTCCAGAGCCTCTG
GCTGTGGCCACCCCTCAAACCTTGCAAGCAGAAGCAGGCTGTGCCCCAGGGACAGAGCCT
GTGGCCACCATGGCTCAGCAGGAAGTAGGTGAGGCCTTAGGCCCCAGGCCAGCACCTGAG
GAGAAGAATGCAGCCTCCTTACAGTCCCGGAGCCTGCAGCCTTGACCAGGTTCAAACAG
GATGACCCACAGCCAGCTGCAAGAAGCTGGGACACCTTGGGCCCAGCAGGAAGTCGGAT
TCCACTTTGGGCATGGAGGCCCTCAGTCTCCTTGAGCCGCCCTCTGGTGCTGGGGAGGAA
ATAGCAGAAGCCCTTTTAGGCCTGGACGGGAAGCATGTCTGGAAGCGCAGCGCACACA
GGTGATGGGGCTAAGCCTGACTACCCCAAAAGGAGACCTTGAGGTTGAGAACACAGCAG
GAAGGAGGCTGAAGCCACTGGCACAGGAACATGGACCCAGGTGAGCACTTGAGGTTGCA
AGGGAGGTCCCCGATGCGCCTCTGCTGCCTGCCCTGAGGTGAGCCAGGCCCGGCTCCTG
AGCCACGCCAGGGAGGAAAGAGGCCTGAGTGGCAAGTCCACCCGGAGCCACGCTTCCC
TCAGTGTGGCCACAGAGGCCAGTCTGGAAGTCTGCCAGAGTCTTCAAGTAGGGGCTGTG
TCCAGTCTGGACAGAGGCTGCCCTGACGCGCCTGCCCCACGCTTGCACCAACCTCCCAG
CAGCCGAGCCTGTACTGGGTCTGGGCAGTGTTGAGCAACCCACGAAGTACCCAGTGTG
CTTGGCACCCCTTGTCTGACGCCCCAGAAAACCTTGCCAAGGGTCAGCCAGCACGCC
GTGGACAGGCCCTGGGCCCTGACCCTTCTGCTCCTGGTACCTTGTGGGGCAGCCCTA
CCCCACTGGAGCCCCCAGCCCCCTGCCTGTGCCAGGACCCCCAGGAAGACTCTGTGGA
GACGAGGAGCCCCCAGGCTCTCTGGGCTCCCACGCCCCCAGCAGGAGTCCAGCCTGCC
GCTGCTGCTGTCTCAGACCCACACAGCAGCTCTGGGAGTGGGCCGAGTACGCTCTCG
CCTACTCCCCACTCTCAGCCCCAAGGTGGCCTCCATGGATGCCAAGACCTTGGCCTTG
CAGATCTTGGCGCTTGCCAAGTGCCTCCTCCTCTGGGCCCCAGAGCCAGCTGGCCCT
CAAGGGCTCTCAGCCCCGAGCAGCAAGAGGATGAGGACAGCCTGGAGGAAGACTCGCT
CGGGCCTGGGCTCGGGCCAGCATTCGGATAGCCACGGGGAGTCATCAGCCGAGCTGGAC
GAGCAGGACATCTTGCTCCTCAGACCGTGAGTGTCCAGCCAGGCCCCAGCAGGCGGC
AGTGAGGAGACCATGCCAAAGCCAAGCAGAGTCGAGTGAGAAGAAGGCCCGAAAGGCA
ATGTCAAAGCTGGGCTTGCGGCAGATTACGGGAGTCACCAGGATACCATCCAGAAGTCC
AAGAACATCCTCTTTGTATCGCCAAGCCTGATGTCTTCAAGAGCCAGCCTCAGACACT
TATGTGGTCTTTGGCGAGGCCAAGATTGAGGACCTGTCCCAGCAAGTGACAAAGCCGCA
GCTGAGAAGTTTAAGGTGCCCTCAGAGCCTCAGCCTTGGTCCCTGAGTCAGCACCCAGG
CCCCGGGTGAGGCTGGAGTGCAAGGAAGAGGAAGAGGAGGAGGAAGAGGTGGACGAG
CGGGGCTGGAAGTGCCTGACATTGAGCTGGTGATGGCGCAGGCCAATGTGTCCAGGGC
AAGGCGGTGCGGGCTCTGAGAGACAACCACAGTGACATCGTCAACGCCATCATGGAAGT
ACCATG

Restriction Sites:	Please inquire
ACCN:	NM_001146334
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001146334.1, NP_001139806.1</u>
RefSeq Size:	4778 bp
RefSeq ORF:	4689 bp
Locus ID:	23148
UniProt ID:	<u>O15069</u>
Cytogenetics:	7p13
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]