

## Product datasheet for MR224752

### Naca (NM\_001113199) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Naca (NM\_001113199) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Naca  
**Synonyms:** AL022831; AL024382; Gm1878; mKIAA0363; skNAC  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR224752 representing NM\_001113199  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGATCGCC

ATGCCCGTGAAGCCACAGAAACCGTCCCTGCTACAGAGCAGGAGTTGCCACAGCCTCAGGCTGAGACAG  
 CTGTGCTTCTATGTCTTCAGCCTTGAAGTTGCTGCTGTAGGGCAGCCTGGACCTACCCCTCCTTCTTC  
 CCTGGGCCCCAGCAAAGCCCTATAGTAAGTCTCATCAGCCTTCTCCACTCCCTCTAGTGTTCCTCG  
 ACCCCCTTTGAAGTTCTTTTGGCCAGCCATAACAGCTGAAACTGCTCTGCCCTCAGGAACTGCCCTC  
 CCACCCAACTTTCTGCCACACCTGATAGGGCTCCCATTTCCCCAGCTGCGCTAGCCTTGGCCTCTCC  
 CATGATAGGTCTAGCTCAGAAAGGTGCCAGGTCCTCCTCGGCTCCCTGTCTCTGGTTCGATTAGCTCCT  
 CATTGGTTTCAGAAGAGCTCTGTATGTCCCTCACCCTCTCACCTCACCTCCATCAGCTGCTGGAGCAG  
 AGTTGGGGCATTGACAGCTTCCATCCCTCCCTTAGAACCAAAGACTTCTACCAGTCAAGTTCCCTCTCA  
 GGAACCCTGAATCTAAAAGGCACTGCCCGTGTCTCCAGATGTAGTCAGGGCTTTTCTTCCACCTT  
 GAAAACCCCTGGCCTCTGTTGAGCCTGGTTAATGTCTGTCTCAAACACTATCCAACACTTCCCGAG  
 TGAAGGTGTCCTTCTCAGCTCTGACACAAAGTCGGCTAAGCCTTAACCTAAAGGACCTGTTAG  
 TCCACCTGCTCGTAACACTGCAGCTCCAGCATCCCCCTAGCACCTCTACTTCTCTGGGCTGTCATCTT  
 CCACTTCTGCATCACAGTTCTGTGGATTCTCCATCCAGCCTCCAGGTCAGTCAGGGCTTGCAGTGAGTA  
 ATCCCACTTCTGTAGGTCAGTCTGGTATTGAGCCTCTTGCCACCTGAGAGATGTGAGTTCTGCCCT  
 TCCCTCCAGGCTGCTGGCTGTTGATTCTGGGGCAGCTCCATCTGACGACAAAGGCTCCTCTGCTGTACT  
 AATGAGCTCTGCAGCCCTCTGGCTCTTCAAATGTAGCTGGTACTTCTTGTCTCTAAAGCCTCTCTCG  
 TTCCCAAAGTTCTAATGTTGCTCTACAGCCTTTGGTGACTCAAGTCCCCTTCTCAAAAACTGGTTT  
 AAAAGAAATTCCTGTCTCTGTATTGGAGCCACCACCATGCCCTGGATAACCCTTCTGCCATTTCTGTA  
 GCACCTGCCACTCATGTGCTCCTCCAACCTTCTCAGGCTTGTGAGTAGTAAAGACCCAGCTTCCCTG  
 TCAGTCACTCGTACCTGCTGCTCACAAGCAGTTTCTGCTCCTCCAGCATCAGTACTCTAGGGGT  
 GCCAGTGTCTCTGCCAGCCACTGAAGGCTTAAAAATCTTCTATTTTCGGCATTAGTAAATGTAGGC  
 GCCCTGTTTCTCCAGCCAGGCAGGGCTCCCTACCAGAAAAGACACTACTCTGCAGCCCTTGGCCCCCA



[View online >](#)

TAGCACTTAAAGAGTCTCCCTCTTCTCAGAGTGCATCATCTCTGGAGGTACTTTTCAAGACACTGTAAC  
AAAGAAGACTACAGGAGGACCTGCCCTGTAGTGCGGCCAGCCATTGCTGGGGTTGCTACTACTTCC  
CTGCGTGTGACTCTCCACCTGTGTATCAGGGCAGATTCTTGTGTAGCCAAACACTGTCAGTCAGC  
CTCTCAAACGTTCTGTTACTGACCCAGCAATGGCTCCTAGAACTGCCAAAAACTGTCCTTCTACCAC  
TTCACCTTTGGTTCCTTAGCCTCTGAAGGCTGTCTGTGGTTCATCTATGGCTTTGCCCCCAAGAT  
GCTTCTGTTTCTGAGACTGCTTTGGCATTGTCCCTGAAATCCCAAGTCTGTGCCCTTCTGATCCCTC  
CCTTAGCTGAGATTTCTTTTCCAATGCAAGGAAAGTTGATGTCTCTCATATGGAGTCTTCAGGCTC  
CTCTCGTCAGGGGCACCCAGATGCTTCTGTGACTGCCAAAGGGACTGTGGTTTGTCTAGCTGACTCATCT  
TTAGACTAGTGTCTGCATCCAAGGCTCTGCTCTCTCAGGTGCTTCGTCTCTCTACCCACTTG  
AGGTTTCTTCTCCAGAGGCAGGTCTGGCTGTTCAAGGCCCTAAAGGCTCACTAATAAGCTTCTCC  
CACTCCTCCATCCTCAAAGGGGCCCTGTTCTTCAACTGGGGCTCCTCCCTCCCTAAAGGAGCCCT  
ATTGTTCAAACAGAAAGTTCTATATCCTCAAACAGGTCCAGCAGAAATTTCTCTTCCCCCAAAAGA  
CCCCAGAAATTACAGCTCCAGACTGATCTCAGCAGTCCAGTCTCCTAAAGTAGACCCTATTATGCAGA  
CGTGACCCCTACCTCTCCAAAAAGACTTCAGCAACTGCAGTCCCAAGATACTTCAGCAACCCTGTCT  
CTCAAAGTGTCCGGCTGTGACTTCCCTGTCTCCCCAAAGGCCCTGTAGCCCATCTAATGAAGCCA  
CCATTGTTCTACTGAGATTCTACCTCCCTCAAAGTGCCTAGCAGCTGCAACTCCCAAGAGACTTT  
AGCAACCTCAATCCAAAGTGACTTCTCTTCCCCACAAAAGACTCCAAATCCGTATCCCTTAAGGGT  
GCCCGGCTATGACCTCCAAAAGGCGACAGAAATGTCAGCCTCCAAAGACGTCTCACCATCCCAGTTTC  
CCAAAGAGGTTCTCTTCTACCACATGTGCTCCTACTTCCCACCAAAGTCCCCAGTAAGTGATACACT  
CAGTGGGGCTCTAACAAGCCACCCCCAAAGTCCCCCTGCCACCCTAGCTGAGACTCTACCTATCCT  
AAAAAGTCCCCTAAACCTGCAGCATCAAAAAAAGTCCAGCGACTCCATCTCTGAAGGGGTACAGCTG  
TCCACTGGAGATTCTCCTTGTCTCAAAAAGGCCCCCAAAAGTGCAGCTCCCAAGAAAGTTACAGCAAC  
TCATCTTCTAAAAGGGCCCTAAAAGTGCAGTTTCAAAAGAAATTCCTTCTAAAGGGGTACAGCTGTG  
CCATTGGAGATTCTCTGCTCTAAAAGAAACCTCCAAAGTGCAACTCCTGGAGAAAAGTCAAGCTCAT  
CCCCAAAAGGTTCCCCAAAAGTGCAGGCCCAAGAAACTCCACCTGGAGGGGTTACAGCTGTGCCCC  
GGAGATTTCTCTACCTCCAAAAGAGACACCCAGAAATGCAACCCCTAATGAAAGTTAGCAGCCTCATCC  
CAAAAAGGTTCCCCAAAAGTTCAGTCCCCAAAGAAACTCCACCTGGAGGGGTACAGCTATGCCACTGG  
AAATTCCTTCTGCCCCCAAAAGGCCCCCAAAAGTGCAGTCCCTAAACAGATTCTACTCCGAAGATGC  
TGTTACTATCCTAGCTGGAAGTCTCTCTCTCCAAAAGGCATCCAAAACCGCAGCCCCCAAGAAAGT  
CCGGCAACCCATCTGTGGGGTTCATAGCTGTATCAGGAGAGATTCTCCTCCCCAAAAGACCTCAA  
AAACTGCAGCCCCAAAGAGAATTCAGCAACCTTACCCCAAAAAGGTTCCCCAAAAGTGCAGCCCCAA  
AGAGACTCCAGCCACATCTTCTGAAGGGTTACAGCTGTGCCATCTGAGATTTCTCTTACCCCAACT  
CCAGCCTCCAAAGGGGTTCTGTGACCCTAACTCCAAAGGTGCCCTAATGCCCTAGCTGAGAGTCTG  
CCTCCCCTAAAAGGTTCCCTAAAAGTGCAGCCCCGAAGAACTCAACAACCCATCCCCCAAAAAAT  
TCCCAAGTGGCAGGTCCCAAGAGGCTTCAGCAACCCACCTTCAAAAAGACCCCAAAAGTGCAGTC  
CCCAAGAAACTTCAGCACCTTCTGAGGGGTACAGCTGTACCACTGGAAATTCCTCCTCCCCAGAA  
AGGCCCTAAAAGTGCAGTCCCAAGAAACTCCAGCCCCGTCTCCTGAAGGGGCCACCACTGCACCAGT  
GCAGATTCCTCCTCCCCAGGAAGGCTCTAAGAAAGCAGGCTCCAAAGAAACCTACAACCCATCT  
CCTGAAGGGGTAACAGCTGCACCTCTAGAAATCCCATATCTTCCAAAAGACTTCCAAAATGGCAAGTC  
CTAAAGAAACGCTAGTAACCCATCTTCCAAAAGCTCTCCAAAAGTGTAGGTCCCAAGAAACTTCACT  
TGAAGGGGCCACAGCTGTGCCACTGGAGATTCTCCTTCCCAAAAAGGCCCCCAAAAGTGTAGATCCT  
AAACAGGTTCTCTAACCCATCTCCTAAAGATGCCCTACTACTCTAGCTGAAAGTCTTCTCCCCCA  
AAAAGGCACCCAAAAGTGCAGCCCCACCTCTGAAAGGTCACCACTGTGCCACCAGAGAAGCTGCCAC  
CCCACAGAAGGCTCAGCAACTACAGCTCCAAAGTGCCTGTCCCTGCCGAGACACAGGAAGTTGTGTC  
TCCTCAAGAGAGACTCCAGTAACCCAGCTGTGCCCCAGTCAAGAACTCTTCTCCATAAGAAGACT  
CAAAGACTATAGAGCTCAAAGAAGCCCCAGCAACCTCCTCCTCCCCAACAAAGGCCCAAAATTC  
ATCATCAAAAAGGCACCAAGGACTTCAGCCCCTAAAGAGTTTCCAGCAAGCCCTTCTATTAACCTGTC  
ACCACCTCACTGGCACAGACAGCTCCTCCAGTCTGCAAAAGGCACCATCGACTACAATCCCAAGGAGA  
ATTTAGCTGCCCGGCTGTTCTGCTGTCTCCAGCAAGAGCCAGCAGCTCCAGCTGCTGCAAGTGTCTC  
CCTTCCCCAGCTACTGCAGCTCCTCAAACAGCTCCAAAAGAGGCCACAACAATCCCATCTTGAAAAAG  
GCTGCAGCTACTGAGACCCCAATTGAGACTTCAACAGCTCCATCTCTCGAGGGGGCCCCAAGGAGACCT  
CAGAAACTCAGTGTCCAAAGTTCTCATGTCTCCCTCCAAAAGGCTTCATCTCCAAAAGAGCCTC

CACTCTCCAGCTACAACCTTCCCTCTCTTAAAGAGGCCTCTGTTCTCTCACCCACTGCCACTTCTTCC  
GGAAAAGACTCTCATATTTCCCCAGTGTCCGATGCTTGTAGCACAGGAAGCTACTACCCCTCAGGCATCTG  
AAAAGCTCCCATCAAAGAAAGGTCTACAGCTTTCACGGAAATGCTTGCTGCACCTGCTCCAGAAAGTGC  
TTTGGCCATCACTGCTCCATTAGAAAAGCCAGGGGCCAACAGCAATTCTGCTTCTCTCCTAAGTGC  
CCAGACCCCTCCTCTAAGAAAGACACAAAGGCCCTCCCTTCTGCAGTAGCTTAGCCCTCAGACAGTTC  
CTGTTGAGAAAGACACTCAAAGCTATAGAACTCTGCTTGTAGCCCTGCAAAAGGCAGTGATTGTCT  
TCATTTCCCAAAGGGTCTGTGGGTCTCAGGTAGTCTCCACTAGCAGCGTTTACCTTGACAAAGTC  
CCTCCGGAAGCTGTGCTGCATCTGTGGCTCCAAGCCTGCCCCAGCAGCTTCCCTGACTCTTGCTCCCT  
CCCCAGTTGCCCTCTGCCTCCTAAACAGCCACTTCTTGAGTCTGCACCTGGGTCCGTGCTGGAGTCCCC  
CTCTAAGCTCCCAGTCCCTGCTGAGGAGGATGAGCTGCCGCTCTGATTTCCCGGAAGCAGTCTCTGGG  
GGAGAGCCTTTCCAGCCGATCCTCGTCAACATGCCCGCCCTAAACCTGCTGGGACCCCTGCCCCAGCC  
CCTCTGCCAAGCAGCCTGTTCTGAAGAACAACAAGGGATCGGGAACAGAGTCTGACAGTATGAGTCAGT  
ACCAGAGCTCGAGGAACAAGACTCCACACAGACGGCCACGCAGCAAGCCAGCTGGCAGCCGAGCAGAG  
ATCGATGAAGAACCTGTAGTAAAGCCAAGCAGAGTGAAGTGAAGAAGGCAAGGAAGGCTATGTCCA  
AACTGGGTCTTCGACAGGTTACAGGGGTTACGAGAGTCACTATCCGAAAATCTAAAAATATCCTCTTGT  
CATCAGAAAACCCGATGTCTACAAGAGCCAGCTTCCAGACACCTACATAGTGTGGGGAAGCAAGATT  
GAAGATTTGTCTCAGCAAGCACAGTTAGCAGTCTGAGAAATCAAAGTTCAAGGTGAAGCTGTTTCAA  
ACATTCAGGAAAACACTCAGACTCCAACCGTCCAAGAGGAGAGTGAAGAAGAGGAGTTGATGAGACGGG  
TGTGGAAGTTAAGGACATAGAAGTGGTCATGTCGCAAGCAAACGTATCAAGAGCAAAGGCTGTTCCGAGCC  
CTGAAAAACAACAGTAATGATATTGTAATGCTATTATGGAATTAACAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

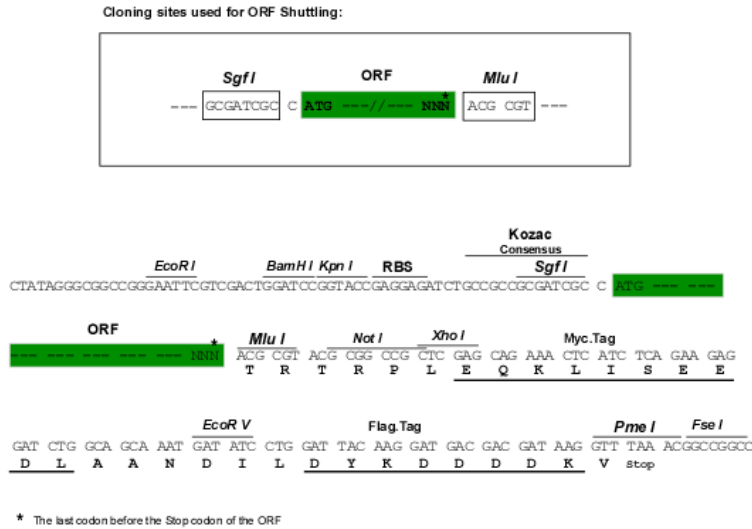
Protein Sequence: >MR224752 representing NM\_001113199  
 Red=Cloning site Green=Tags(s)

MPGEATETVPATEQELPQPQAETAVLPMSSALKVAAVGQPGTPPSSSLGPQQSPIVTAHQPSPLPSSVSS  
 TPFEVPPFAQPITAETALPSGTAPPTPTFLPHLIGPPISPAALALASPMIGLAQKGARSSSAPLSLVALAP  
 HSVQKSSVCPHPLTSPSSAAGAELGALTASIPPLEPKTSTSQVPSQGTNLKGTAPCPDVRVAFPSHL  
 ENPLASVQPGMLMSPQTLNNTSPVKGVPISAL TQSRLSLNLKGPVSPPARNTAAPSIPLAPSTSLGCHL  
 PLLHHSSVDSPIQPPGQSLAVSNPTSVGHSGIAASCPPERCVVPALPSRLLAVDSGAAPSDDKGSsavt  
 NELCSPGGSSNVAGTSLSPKASLVKGSNVALQPLVTQVPASQKTGLKEIPVSCIGATHHALDNPSAISV  
 APATHVPPPTSSGLVSSKDPASVPTSLVVPAAHKQFPAPPASATLGVVPSPLPATEGLKNLPISALVNVG  
 APVSPAQAGLPTRKDTTLQPLAPIALKESPSSQSASSLEVLSEDTVTKKTTGGPAPVVRPAIAGVATTTT  
 LRADSPPAVIRADSCVSNPTVSQPLKRSVTDPMAPRTAKNTAPSTT SPLVPLASEGCPVASSMALSPQN  
 ASVSETALALSPEIPKSVFPDPLAEISFSNARKVDVSHMSSGSSRQGHDPASVTAKGTVVCLADSS  
 LDTSVSASKGSALSGASSPLYLEVSFLPEAGLAVQGPKGSNLKLSPTPPSSKGPVSTGAPSPKGP  
 IVPTESSISSKQVPAEILPSPQKTPEVTASRLISAVQSPKVDPIMSDVTPTSPKKSATAVPKDTSATLS  
 LKSVPAVTSLSPPKAPVAPSNEATIVPTEIPTSLKNALAAATPKETLATSIPKVTSPSPQKTPKSVSLKG  
 APAMTSKKATEIAASKDVSPSQFPKEVPLLPHVPTSPPKSPVSDTL SGALTSPPPKGPATLAETPTYP  
 KKSPKPAASKKTPATPSPEGVTA VPLEIPPCSKKAPKTAAPKESSATSSSKRAPKTAVSKEIPSKGVTAV  
 PLEISLPLKETSATSATPGEKSASSPKRSPKTAGPKETPPGGVTAVPPEISLPPKETPQNATPNESLAASS  
 QKRSPKTSVPKETPPGGVTAMPLEIPSAPOKAPKTA VPKQIPTPEDAVTILAGSPLSPKKASKTAAPKEA  
 PATPSVGVIAVSGEISPSPKKTSKTAAPKENSATLPPKRSKTAAPKETPATSSSEGVTA VPSSEISPSPT  
 PASKGVPVTLTPKGAPNALAESPA SPKKVPKTA APEETSSTPSPQKIPKVAGPKEASATPPSKKTPKTAV  
 PKETSAPSEGVTA VPLEI PPSPRKAPKTAAPKETPAPSPEGATTAPVQIPPSPRKGSKKAGSKETPTTTPS  
 PEGVTAAPLEIPISSKKTSMASPKETLVTPSSKKLSQTVGPKETSLEGATAVPLEIPPSHKKAPKTVDP  
 KQVPLTPSPKDAPTTLAESPSSPKKAPKTAAPPSEVTTVPPEKPATPQKASATTASKVVPVPAETQEVAV  
 SSRETPVTPAVPPVKNPSSHKTSKTIELKEAPATLPPSPTKSPKIPSSKKAPRTSAPKEFPASPSIKPV  
 TTSLAQTAPPSLQKAPSTTIPKENLAAPAVLPVSSKSPAAPAAASASLSPATAAPQTAPKEATTIPSCCK  
 AAATETPIETSTAPSLEGAPKETSETSVSKVLMSSPPKKASSSKRASTLPATTLPSLKEASVLSPTATSS  
 GKDSHISPVSDACSTGTTTPQASEKLPSKKGPTAFTEMLAAPAPESALAITAPIQKSPGANSNSASSPKC  
 PDPSSKDKTGLPSAVALAPQTVPEKDTSKAIETLLVSPAKGSDCLHSPKGPVGSQVATPLAAFTSDKV  
 PPEAVSASVAPKPAPAASLTLAPSPVAPLPPKQPLLESAPGSVLES SKLPVPAEEDDEL PPLIPPEAVSG  
 GEPFQIILVNMPAPKPAGTPAPAPSAKQVVKNNKSGTSESDSESVPELEE QDSTQTATQQAQLAAAAE  
 IDEEVPKAKQSRSEKKARKAMSKLGLRQVTGVTRVTIRKSKNILFVITKPDVYKSPASDITYIVFGEAKI  
 EDLSQQAQLAAAEKFKVQGEAVSNIQENTQTPTVQEESEEEVEDETGVEVKDIELVMSQANVSRKAVRA  
 LKNNSNDIVNAIMELTM

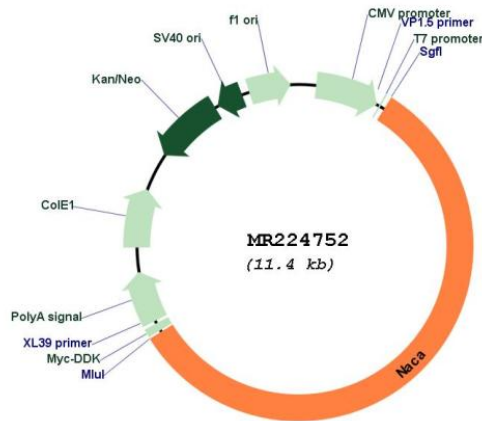
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001113199

ORF Size: 6561 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001113199.1, NP_001106670.1</u>
<b>RefSeq Size:</b>	7034 bp
<b>RefSeq ORF:</b>	6564 bp
<b>Locus ID:</b>	17938
<b>UniProt ID:</b>	<u>P70670</u>
<b>Cytogenetics:</b>	10 D3
<b>MW:</b>	220.9 kDa
<b>Gene Summary:</b>	Prevents inappropriate targeting of non-secretory polypeptides to the endoplasmic reticulum (ER). Binds to nascent polypeptide chains as they emerge from the ribosome and blocks their interaction with the signal recognition particle (SRP), which normally targets nascent secretory peptides to the ER. Also reduces the inherent affinity of ribosomes for protein translocation sites in the ER membrane (M sites) (By similarity). Isoform 1 and isoform 2 appear to bind DNA and play roles in transcription. Isoform 1 may function as a specific coactivator for JUN, acting to stabilize the interaction of JUN homodimers with promoter elements. [UniProtKB/Swiss-Prot Function]