

## Product datasheet for **MC226343**

### Naca (NM\_001282976) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Naca (NM\_001282976) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Naca  
**Synonyms:** AL022831; AL024382; Gm1878; mKIAA0363; skNAC  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226343 representing NM\_001282976  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCCGGTGAAGCCACAGAAACCGTCCCTGCTACAGAGCAGGAGTTGCCACAGCCTCAGGCTGAGACAG  
GATCGGGAACAGAGTCTGACAGTGATGAGTCAGTACCAGAGCTCGAGGAACAAGACTCCACACAGACGGC  
CACGCAGCAAGCCAGCTGGCAGCCGCAGCAGAGATCGATGAAGAACCTGTTAGTAAAGCCAAGCAGAGT  
CGAAGTGAGAAGAAGGCAAGGAAGGCTATGTCCAACTGGGTCTTCGACAGGTTACAGGGTTACGAGAG  
TCACTATCCGAAAATCTAAAAATATCCTCTTTGTATCACAACCCGATGTCTACAAGAGCCCAGCTTC  
AGACACCTACATAGTGTGGGGAAGCCAAGATTGAAGATTTGTCTCAGCAAGCAGATTAGCAGCTGCT  
GAGAAATCAAAGTTCAAGGTGAAGCTGTTTCAAACATTCAGGAAAACACTCAGACTCCAACCGTCCAAG  
AGGAGAGTGAAGAAGAGGAGGTTGATGAGACGGGTGTGGAAGTTAAGGACATAGAAGTGGTATGTCGCA  
AGCAAACGTATCAAGAGCAAAGGCTGTTTCGAGCCCTGAAAACAACAGTAATGATATTGTAATGCTATT  
ATGGAATTAACAATG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001282976  
**Insert Size:** 648 bp



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|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>OTI Annotation:</b>        | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.  |
| <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>                | <a href="#">NM_001282976.1</a> , <a href="#">NP_001269905.1</a>   |
| <b>RefSeq Size:</b>           | 1229 bp   |
| <b>RefSeq ORF:</b>            | 648 bp  |
| <b>Locus ID:</b>              | 17938   |
| <b>UniProt ID:</b>            | <a href="#">Q60817</a>  |
| <b>Cytogenetics:</b>          | 10 D3   |
| <b>Gene Summary:</b>          | <p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) has an additional segment in the 5' UTR and lacks an in-frame large exon in the coding region, compared to variant 1. The resulting isoform (b) lacks an internal segment, compared to isoform a. Variants 2 and 3 encode the same isoform b.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |