

## Product datasheet for **SC116682**

### **NACA (NM\_005594) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NACA (NM_005594) Human Untagged Clone
Tag:	Tag Free
Symbol:	NACA
Synonyms:	HSD48; NAC-alpha; NACA1; skNAC
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116682 sequence for NM_005594 edited (data generated by NextGen Sequencing) ATGCCCGCGAAGCCACAGAAACCGTCCCTGCTACAGAGCAGGAGTTGCCGCAGCCCCAG GCTGAGACAGGGTCTGGAACAGAATCTGACAGTGATGAATCAGTACCAGAGCTTGAAGAA CAGGATCCACCCAGGCAACCACACAACAAGCCAGCTGGCGGCAGCAGCTGAAATCGAT GAAGAACCAGTCAGTAAAGCAAAACAGAGTCGGAGTGAAAAGAAGGCACGGAAGGCTATG TCCAAACTGGGTCTTCGGCAGGTTACAGGAGTTACTAGAGTCACTATCCGGAAATCTAAG AATATCCTCTTTGTCATCACAAAACCAGATGTCTACAAGAGCCCTGCTTCAGATACTTAC ATAGTTTTTGGGAAGCCAAGATCGAAGATTTATCCCAGCAAGCACAACACTAGCAGCTGCT GAGAAATTCAAAGTTCAAGGTGAAGCTGTCTCAAACATTCAGAAAACACACAGACTCCA ACTGTACAAGAGGAGAGTGAAGAGGAAGAGGTCGATGAAACAGGTGTAGAAGTTAAGGAC ATAGAATTGGTCATGTCACAAGCAAATGTGTCGAGAGCAAAGGCAGTCCGAGCCCTGAAG AACAAACAGTAATGATATTGTAATGCGATTATGGAATTAACAATGTAA  Clone variation with respect to NM_005594.4 177 t=>c;543 t=>a



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005594 unedited  
 ATACGACTCCTATAGGGCGGCCGATTTCGGCACGAGGGTACTTTCTGTGCCGCTACTGT  
 CTATCCGCAGCCATCCGCCTTTCTTTCCGGGCTAAGCCGCCCGGGGACTGAGAGTTAAGG  
 AGAGTTGGAGGCTTTACTGGGCCACAGGGTTCTACTCGCCCCTGGGCCTCCGGACAAAA  
 TGGGGTCTGCGGTTGGTGTCTTGCAAAAAGCAGGGTAGAAGGGCTGCGGGGCGGGCCAG  
 AATCCGAGCCTGCAGAGATGGGAGCAGTTGCAGTGTGAGGGCGGAAGAGGAGTGCCTCT  
 TGTTTTGGGAAGCTGCTTACAGGATCCAGAAAAGGAAATGCCCGCGAAGCCACAGAAA  
 CGTCCCTGCTACAGAGCAGGAGTTGCCGAGCCAGGCTGAGACAGGGTCTGGAACAGA  
 ATCTGACAGTGATGAATCAGTACCAGAGCTTGAAGAACAGGATTCCACCCAGGCAACCAC  
 ACAACAAGCCCAGCTGGCGGCAGCAGCTGAAATCGATGAAGAACCAGTCAGTAAAGCAAA  
 ACAGAGTCGGAGTAAAAGAAGGCACGGAAGGCTATGTCCAAACTGGGTCTTCGGCAGGT  
 TACAGGAGTTACTAGAGTCACTATCCGGAATCTAAGATATCCTCTNTGCATCACAAAA  
 CCAGATGTCTACAAGAGCCCTGCTTCAGATACTTACATAGTTTTTGGGGAAGCCAAGATC  
 GAAGATTTATCCCAGCAGCACAACTAGCAGCTGCTGAGAAATCAAAGTCAGGGTGAAG  
 CTGTCTCAACATTCAAGAAACACACGACTCCACTGTACAGAAGAGATGAGAGGAAAAGTC  
 ATGAACCAAGTGTAAAGTAGGACTAAATTGGTCTGTACAGCAAAGTGTACAGACAAGGCATT  
 CGAGCCTGAGACACATATGATATGTATGA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005594 unedited  
 NCCTTTTACTTTGGACCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTCCCAACAAAAGCCATAACTTTTTATTTTATGATAGAAAACAGTACA  
 AATTTCAAACCAAGCTGCAGTTACTCCTTTGAAACACCAAAAAAAGTTGCTTCCATATGG  
 TTACATTGTTAATTCCATAATCGCATTACAATATCATTACTGTGTTTCTTCAGGGCTCG  
 GACTGCCTTTGCTCTCGACACATTTGCTTGGGACATGACCAATTCTATGCCTTAACTTC  
 TACACCTGTTTCATCGACCTTTTCTCTTAACTCTCTCTTGAACAGTTGGAGTCTGGGG  
 GTTTTCTTGAATGTTGGAACAGCTTACCTTGAACCTTGAATTTCTCAGCAGCTGCTAG  
 TTGGGCTTGTGGGATAAATCTTCAATCTTGGCTTCCCCAAAACATGTAAGTATCTGA  
 AGCAGGGCTCTTGTAAACATCTGGTTTTGTGATGACAAAGAGGATATTCTTAAATTTCCG  
 GATAGTGACTTTAGTAACTCCTGTAACCTGCCGAAGACCCAGTTGGGACATAGCCTTCCG  
 TGCCTTCTTTTCACTCCGACTCTGTTTTGCTTTACTGACTGGTTCTTCATGGATTTCACT  
 TGCTGCCGCCAGCTGGGCTTGTGTGTGGTTGCCTGGGTGGAACCCCTGTTCTTTCAGCCTC  
 TGGAACTGATTCATCACTGCAAGATTCTGTTCCAACCCCTGTCTAAGCCTGGGGCTGCGG  
 AACTTCTGTTCTGAACAGGAACGGTTTTTGTGGCTTCCCCGGCATTCTTTTTCTGATC  
 CTGGGAAGCATTCCCAAAAAGAGCATTCTTTTTCGCCCTAAAATGGAATGGTCCCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005594

**Insert Size:**

1460 bp

**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).

**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).

<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_005594.2</a> , <a href="#">NP_005585.1</a>
<b>RefSeq Size:</b>	1089 bp
<b>RefSeq ORF:</b>	648 bp
<b>Locus ID:</b>	4666
<b>UniProt ID:</b>	<a href="#">Q13765</a>
<b>Cytogenetics:</b>	12q13.3
<b>Domains:</b>	NAC
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>This gene encodes a protein that associates with basic transcription factor 3 (BTF3) to form the nascent polypeptide-associated complex (NAC). This complex binds to nascent proteins that lack a signal peptide motif as they emerge from the ribosome, blocking interaction with the signal recognition particle (SRP) and preventing mistranslocation to the endoplasmic reticulum. This protein is an IgE autoantigen in atopic dermatitis patients. Alternative splicing results in multiple transcript variants, but the full length nature of some of these variants, including those encoding very large proteins, has not been determined. There are multiple pseudogenes of this gene on different chromosomes. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (3) differs in 5' UTR and lacks three alternate exons in the central coding region, but maintains the reading frame, compared to variant 1. This variant encodes isoform b, which is shorter than isoform a. Variants 2, 3, 4, and 5, encode the same isoform (b).</p>