

Product datasheet for **SC108846**

NCOA4 (NM_005437) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCOA4 (NM_005437) Human Untagged Clone
Tag:	Tag Free
Symbol:	NCOA4
Synonyms:	ARA70; ELE1; PTC3; RFG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_005437, the custom clone sequence may differ by one or more nucleotides

```

ATGAATACCTTCCAAGACCAGAGTGGCAGCTCCAGTAATAGAGAACCCCTTTTGGAGTGTAGTGATGCAC
GGAGGGACTTGGAGCTTGTCTATTGGTGGAGTTCTCCGGGCTGAACAGCAAATTAAGATAACTTGGGAGA
GGTCAAAGCTCAGATTCACAGTTGCATAAGCCGTCACCTGGAATGTCTTAGAAGCCGTGAGGTATGGCTG
TATGAACAGGTGGACCTTATTTATCAGCTTAAAGAGGAGACACTTCAACAGCAGGCTCAGCAGCTCTACT
CGTTATTGGGCCAGTTCAATTGTCTTACTCATCAACTGGAGTGTACCCAAAAAACAAGATCTAGCCAAATCA
AGTCTCTGTGTGCCTGGAGAGACTGGGCAGTTTGACCCTTAAGCCTGAAGATTCAACTGCTCTGCTCTTT
GAAGCTGACACAATTACTCTGCGCCAGACCATCACCACATTTGGGTCTCTCAAACCATTCAAATTCCTG
AGCACTTGATGGCTCATGCTAGTTCAGCAAATATTGGGCCCTTCTGGAGAAGAGAGGCTGTATCTCCAT
GCCAGAGCAGAAGTCAGCATCCGGTATTGTAGCTGTCCCTTTCAGCGAATGGCTCCTTGGAAAGCAAACCT
GCCAGTGGTTATCAAGCTCCTTACATACCCAGCACCGACCCCCAGGACTGGCTTACCCAAAAGCAGACCT
TGGAGAACAGTCAGACTTCTCCAGAGCCTGCAATTTCTCAATAATGTGCGGGGAAACCTAAAGGGCTT
AGAAAACCTGGCTCCTCAAGAGTGAAAAATCAAGTTATCAAAAAGTGAACAGCCATTCCACTACTAGTTCT
TTCTCCATTGAAATGGAAAAGGTTGGAGATCAAGAGCTTCTGATCAAGATGAGATGGACCTATCAGATT
GGCTAGTGACTCCCAGGAATCCCATAGCTGCGGAAGCCTGAGAATGGCAGTCGTGAAACCAGTGAGAA
GTTTAAGCTCTTATTCCAGTCTATAATGTGAATGATTGGCTTGTCAAGACTGACTCCTGTACCAACTGT
CAGGGAACCAGCCAAAGGTGTGGAGATTGAAAACCTGGGCAATCTGAAGTGCCTGAATGACCATTGG
AGGCCAAGAAACCATTGTCCACCCAGCATGGTTACAGAGGATTGGCTTGTCCAGAACCATCAGGACCC
AATGTAGGAGAGGAGGCTGTGTAAGTGGCTTCTGAAGAAAGAAGGAAAGGATAAAAAATGGGATGCCTG
AATTGTGAGAAGGAGGCTGTGTAAGTGGCTTCTGAAGAAAGAAGGAAAGGATAAAAAATGGGATGCCTG
TGGAAACCAACCTGAGCCTGAGAAGCATAAAGATTCCCTGAATATGTGGCTCTGTCTAGAAAAGAAAGT
AATAGAACAACCTAAAGCACAAAGGCAATGACTCCTTCTAGAATTGCTGATTCTTCCAAGTCATAAAG
AACAGCCCTTGTGCGAGTGGCTTATCAGGCCCCATACAAGAAGGAAGTCCCAAGGAAGTGCCTGGTA
CTGAAGACAGAGCTGGCAAACAGAAGTTTAAAAGCCCATGAATACTTCTGGTGTCTCTTAAACACAGC
TGACTGGTCTGCCAGGAAAGAAGATGGGCAACCTCAGCCAGTTATCTTCTGGAGAAGACAAGTGGCTG
CTTCGAAAGAAGGCCAGGAAGTATTACTTAATTCACCTCTACAGGAGGAACATAACTTCCCCCAGACC
ATTATGGCTCCTGCAGTTTGTGATCTCTTGGCTGTATGCAGCTTAAAGTTGATAAAGAGAAGTGGTT
ATATCGAACTCCTCTACAGATGTGA
    
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005437 unedited

```

TATATTTTGTATACGACTCACTATAGGGCGCCGCGAAATTCGCACGAGGTCTCCTCGGA
TCGCCTGGAGAGGCACTCGGACCTGGAGCAGTGAGGAGAATGAATACCTTCCAAGACCAG
AGTGGCAGCTCCAGTAATAGAGAACCCCTTTTGGAGTGTAGTGATGCACGGAGGGACTTG
GAGCTTGTCTATTGGTGGAGTTCTCCGGGCTGAACAGCAAATTAAGATAACTTGGCAGAG
GTCAAAGCTCAGATTCACAGTTGCATAAGCCGTCACCTGGAATGTCTTAGAAGCCGTGAG
GTATGGCTGTATGAACAGGTGGACCTTATTTATCAGCTTAAAGAGGAGACTTCAACAG
CAGGCTCAGCAGCTCTACTCGTTATTGGGCCAGTTCAATTGTCTTACTCATCAACTGGAG
TGTACCCAAAACAAGATCTAGCCAATCAAGTCTCTGTGTGCCTGGAGAGACTGGGCAGT
TTGACCTTAAGCCTGAAGATTCAACTGCCTGCTCTTTGAAGCTGACACAATTACTCTG
CGCCAGACCATCACCACATTTGGGTCTCTCAAACCATTCAAATTCCTGAGCACTTGATG
GCTCATGTAGTTCAGCAAATATTGGGCCCTTCTGGAGAAGAGAGGCTGTATCTCCATG
CCAGAGCAGAAGTCAGCATCCGGTATTGTAGCTGTCCCTTTCAGCGAATGGCTCCTTTTA
AGCAAACCTGCCAGTGTTTATCAAGCTCCTTACATACCCAGCACCGACCCCCAGGACTGG
CTTACCCAAAAGCAGACCTTGTAGACAGTCAAGTCTTCTCAAACCCTTGCATTTCTTCAAT
AATGTTCCGGGAAACCCTAAGGGCTTANAANAAGTCTCCTCAAGAGTGAAAAATCAATTTT
CAAAGTGAACAGCCCTCCCTACTAGTTCTTCTTGAATGAAAAGTGGAAAN
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005437 unedited TCTTTGGACCGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTATGGCTGT TATGCTTTTTAATGGAAGCAGATACAAAATTCATCAATGCAAAAGAATGTTTTACATACT CATTAACATAGTGATTAATGTAAATTATTTTTGACTTGTAATAACAGTGTGTTTGCC TCAAGAACTACAGAGCTGCAACTCAAGATAACTGGAAAGGCTCCTTACATTGTTTTGC CCACCACCTTTATATAACTCCTAAATGATATCTGGGGAGGGAATAAAAATAATACA AAGCTCTTTTCAGCTGTGGTTCAAAGAACTCTAGTGAAGCTGTATGGCAATGACATTTTG GGACCATGAAGTTTCCCCAGAAGTATTTCCGGTAAGAGGCAGTTAAGAAGCTTAATAGTT TCAAAGCTCGAAAGCAGCAAAGATATCTTAGAGAAAACATTATAAACCCCACTTCTCTC CTACACAGACATTTTAAAGCATGGACGTAACCTTAAAGGAGACTGAGAAAACATCAGTAGT TTTCACAAAGCTTCAATGAACACCCCAAGGCACAAGTGTGAAAACGGCCTGTTCACTAA AACGTCACCTTTTGGAGGTACAGGTATGCTGTGCTTGCAGTGAGAGGATGACTTTATCCCT ACTTAAAAGCACCAGGTGCAAGCTCAGCTTCCATTTACACAGGATGCACCAATTATCCC TATGATAGTGACTGTTTCAAGTACTATACTACATTTCCAACATGTCTTTGCCTATTTGC TTAGTCGGTACTGGGGTCTTTTAGCCCGTAGGTCTGTAGATATTTAAAGGCTAGAAT TACCTAAAATAGTCTTGAAAAACTGAGTCCTTAAAGAGCTACTGGATATTTAAATA CATTTACACAAGNACANAATTGCAGTAGCTGGAGTTAGTGAAGAATATGGTAAACTAACT GGGCTAAAATGTTTCATAT
Restriction Sites:	ECoRI-NOT
ACCN:	NM_005437
Insert Size:	3420 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).
Reconstitution Method:	<ol style="list-style-type: none"> 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_005437.1</u> , <u>NP_005428.1</u>
RefSeq Size:	3506 bp
RefSeq ORF:	1845 bp
Locus ID:	8031
UniProt ID:	<u>Q13772</u>
Cytogenetics:	10q11.22
Protein Families:	Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Thyroid cancer

Gene Summary: This gene encodes an androgen receptor coactivator. The encoded protein interacts with the androgen receptor in a ligand-dependent manner to enhance its transcriptional activity. Chromosomal translocations between this gene and the ret tyrosine kinase gene, also located on chromosome 10, have been associated with papillary thyroid carcinoma. Alternatively spliced transcript variants have been described. Pseudogenes are present on chromosomes 4, 5, 10, and 14. [provided by RefSeq, Feb 2009]

Transcript Variant: This variant (5) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG. This variant (5) also lacks an exon in the 3' coding region, which results in a frameshift and use of a downstream stop codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus and a shorter, distinct C-terminus compared to isoform 1. Variants 3, 4, and 5 encode the same protein.