

## Product datasheet for **RC226676**

### **NCOA4 (NM\_001145261) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NCOA4 (NM_001145261) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NCOA4
Synonyms:	ARA70; ELE1; PTC3; RFG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226676 representing NM\_001145261  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGCCAGTTGACCACTTTTGTCTAGCTGGAGCAGTGAGGAGAATGAATACCTTCCAAGACCAGA  
 GTGGCAGCTCCAGTAATAGAGAACCCTTTTGTAGGTGTAGTGATGCACGGAGGGACTTGGAGCTTGCTAT  
 TGGTGGAGTTCTCCGGGCTGAACAGCAAATTAAGATAACTTGGCAGAGGTCAAAGCTCAGATTCACAGT  
 TGCATAAGCCGTCACCTGGAATGTCTTAGAAGCCGTGAGGTATGGCTGTATGAACAGGTGGACCTTATTT  
 ATCAGCTTAAAGAGGAGACACTTCAACAGCAGGCTCAGCAGCTCTACTCGTTATTGGGCCAGTTCAATTG  
 TCTTACTCATCAACTGGAGTGTACCCAAAACAAAGATCTAGCCAATCAAGTCTCTGTGTGCCTGGAGAGA  
 CTGGGCAGTTTGACCCTTAAGCCTGAAGATTCAACTGCCTGCTCTTTGAAGCTGACACAATTACTCTGC  
 GCCAGACCATCACCACATTTGGGTCTCTAAAACCATTCAAATTCCTGAGCACTTGATGGCTCATGCTAG  
 TTCAGCAAATATTGGGCCCTTCTGGAGAAGAGAGGCTGTATCTCCATGCCAGAGCAGAAGTCAGCATCC  
 GGTATTGTAGCTGTCCTTTTCCAGCAATGGCTCCTTGGAAAGCAAACCTGCCAGTGGTTATCAAGCTCCTT  
 ACATACCCAGCACCGACCCCGAGGACTGGCTTACCCAAAAGCAGACCTTGGAGAACAGTCAGACTTCTTC  
 CAGAGCCTGCAATTTCTCAATAATGTCGGGGGAAACCTAAAGGGCTTAGAAAATGGCTCCTCAAGAGT  
 GAAAAATCAAGTTATCAAAAGTGTAAACAGCCATTCCTACTACTAGTTCTTTCTCCATTGAAATGAAAAAGG  
 TTGGAGATCAAGAGCTTCTGATCAAGATGAGATGGACCTATCAGATTGGCTAGTGACTCCCCAGGAATC  
 CCATAAGCTGCGGAAGCCTGAGAATGGCAGTCGTGAAACCAGTGAGAAGTTAAGCTCTTATTCCAGTCC  
 TATAATGTGAATGATTGGCTTGTCAAGACTGACTCCTGTACCAACTGTGAGGAAACCAGCCAAAGGTG  
 TGGAGATTGAAAACCTGGGCAATCTGAAGTGCCTGAATGACCATTGGAGGCAAGAAACATTGTCCAC  
 CCCAGCATGGTTACAGAGGATTGGCTTGTCCAGAACCATCAGGACCCATGTAAGGTAGAGGAGGTGTGC  
 AGAGCCAATGAGCCCTGCACAAGCTTGTGAGAGTGTGTGTGTGATGAGAATTGTGAGAAGGAGGCTCTGT  
 ATAAGTGGCTTCTGAAGAAAGAAGGAAAGGATAAAAAATGGGATGCCTGTGGAACCCAAACCTGAGCCTGA  
 GAAGCATAAAGATTCCCTGAATATGTGGCTCTGTCTTAGAAAAGAAGTAATAGAACAAAATAAAGCACCA  
 AAGGCAATGACTCCTTCTAGAATTGCTGATTCTTCCAAGTCATAAAGAACAGCCCTTGTCTGGAGTGGC  
 TTATCAGGCCCCATACAAAAGAAGGAAGTCCCAAGGAAGTGCCTGGTACTGAAGACAGAGCTGGCAAACA  
 GAAGTTTAAAAGCCCATGAATACTTCTGGTGTCTCTTAACACAGCTGACTGGGTCTGCCAGGAAAG  
 AAGATGGCAACCTCAGCCAGTTATCTTCTGGAGAAGACAAGTGGCTGCTCGAAAAGAAGGCCAGGAAG  
 TATTACTTAATCACCTCTACAGGAGGAACATAACTTCCCCCAGACCATTATGGCTCCCTGCAGTTTG  
 TGATCTCTTTGCCTGTATGCAGCTTAAAGTTGATAAAGAGAAGTGGTTATATCGAACTCCTCTACAGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226676 representing NM\_001145261  
 Red=Cloning site Green=Tags(s)

MGAQLTTFALAGAVRRMNTFQDQSGSSSNREPLLRCSDDARRDLELAIGGVLRAEQQIKDNLREVKAQIHS  
 CISRHLECLRSREVWLYEQVDLIYQLKEETLQQQAQQLYSLLGQFNCLTHQLECTQNKDLANQVSVCLER  
 LGSLTLKPEDSTVLLFEADTITLRQITITFGSLKTIQIPEHLMHASSANIGPFLEKRGCSIMPEQKSAS  
 GIVAVPFSEWLLGSKPASGYQAPYIPSTDPQDWLTQKQTLENSQTSRACNFFNNGNLKLENWLLKS  
 EKSSYQKCNHSTTSSFSIEMEKVGDQELPDQDEMDLSDWL VTPQESHKLRKPENGSRETSEKFKLLFQS  
 YNVNDWL VKTDSCTNCQGNQPKGVEIENLGNLKCLNDHLEAKKPLSTPSMVEDWL VQNHQDPCKVEEVC  
 RANEPCTSF AECVDENCEKEALYKWLKKEGDKNGMPVEPKPEPEKHKDSLNMWL CPRKEVIEQTKAP  
 KAMTPSRIADSFQVIKNSPLSEWLIRPPYKEGSPKEVPGTEDRAGKQKFKSPMNTSWCSFNTADWVLP GK  
 KMGNLSQLSSGEDKWLRLKKAQEVLLNSPLQEEHNFPPDHYGLPAVCDLFAQMQLKVDKEKWL YRTP LQM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8070\\_e12.zip](https://cdn.origene.com/chromatograms/mk8070_e12.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001145261

ORF Size: 1890 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.

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: [NM\\_001145261.1](#), [NP\\_001138733.1](#)

RefSeq ORF: 1893 bp

Locus ID: 8031

UniProt ID: [Q13772](#)

Cytogenetics: 10q11.22

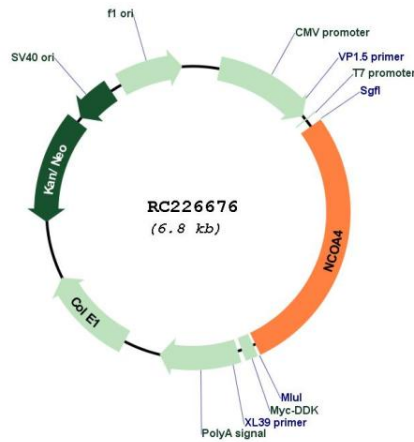
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Thyroid cancer

MW: 71.2 kDa

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]

**Product images:**



Circular map for RC226676