

Product datasheet for **RC226691**

NCOA4 (NM_001145262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCOA4 (NM_001145262) 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:

>RC226691 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATACCTTCCAAGACCAGAGTGGCAGCTCCAGTAATAGAGAACCCTTTTGAGTGTAGTGATGCAC
 GGAGGGACTTGGAGCTTGTCTATTGGTGGAGTCTCCGGGCTGAACAGCAAATTAAGATAACTTGGGAGA
 GGTCAAAGCTCAGATTCACAGTTGCATAAGCCGTCACCTGGAATGTCTTAGAAGCCGTGAGGTATGGCTG
 TATGAACAGTGGACCTATTTATCAGCTTAAAGAGGAGACACTTCAACAGCAGGCTCAGCAGCTCTACT
 CGTTATTGGGCCAGTTCAATTGTCTTACTCATCAACTGGAGTGTACCCAAAACAAAGATCTAGCCAAATCA
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 TGGAGAACAGTCAGACTTCTCCAGAGCCTGCAATTTCTCAATAATGTCGGGGGAAACCTAAAGGGCTT
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 GGCTAGTGACTCCCAGGAATCCCATAGCTGCGGAAGCCTGAGAATGGCAGTCGTGAAACCAGTGAGAA
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 CAGGGAACAGCCAAAGGTGTGGAGATTGAAAACCTGGGCAATCTGAAGTGCCTGAATGACCATTGG
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 CTGAAGACAGAGCTGGCAAACAGAAGTTTAAAAGCCCATGAATACTTCTGGTGTCTCTTAAACACAGC
 TGACTGGTCTGCCAGGAAAGAAGATGGGCAACCTCAGCCAGTATCTTCTGGAGAAGACAAGTGGCTG
 CTTGAAAGAAGGCCAGGAAGTATTACTTAATCACCTCTACAGGAGGAACATAACTTCCCCCAGACC
 ATTATGGCTCCCTGCAGTTTGTGATCTTTGCCTGTATGCAGCTTAAAGTTGATAAAGAGAAGTGGT
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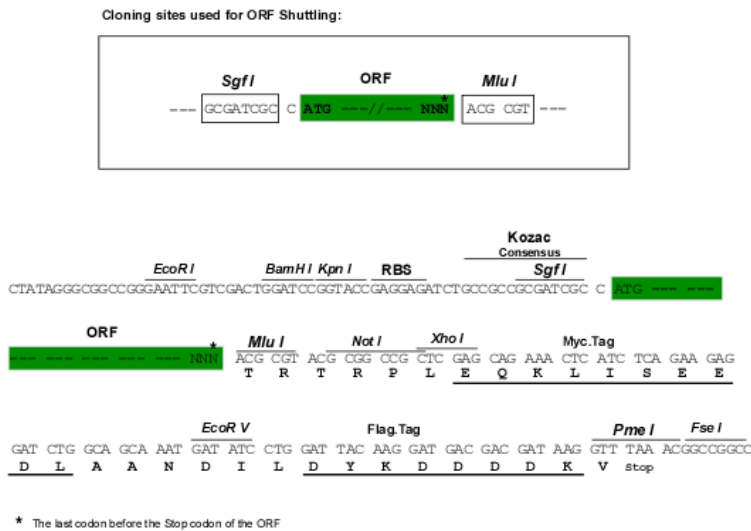
Protein Sequence:

>RC226691 protein sequence
 Red=Cloning site Green=Tags(s)

MNTFQDQSGSSSNREPLLRCSDDARRDLELAIGGVLRAEQQIKDNLREVKAQIHSCISRHLECLRSREVL
 YEQVDLIYQLKEETLQQQAQQLYSLLGQFNCLTHQLECTQNKDLANQVSVCLERLGSLLKPEDSTVLLF
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 ASGYQAPYIPSTDPQDWLTQKQTLNSQTSRRACNFFNNVGGNLKLENWLLKSEKSSYQKCNHSTTSS
 FSIEMEKVGDQELPDQDEMDLSDWL VTPQESHKLRKPENGSRETSEKFKLLFQSYNVNDWL VKTDSCNTC
 QGNQPKGVEIENLGNLKLNDHLEAKKPLSTPSMVTEDWL VQNHQDPCKVEEVCRANEPCTSF AECVDE
 NCEKEALYKWLKKEGKDKNGMPVEPKPEPEKHKDSLNMWL CPRKEVIEQTKAPKAMTPSRIADSFQVIK
 NSPLSEWLIRPPYKEGSPKEVPGTEDRAGKQKFKSPMNTSWCSFNADWVLP GKMKMNLSQLSSGEDKWL
 LRKKAQEVLLNSPLQEEHNFPPDHYGLPAVCDL FACMQLKVDKEKWL YRTP LQM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6139_a12.zip
 Restriction Sites: SgfI-MluI
 Cloning Scheme:



ACCN: NM_001145262

ORF Size: 1842 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.

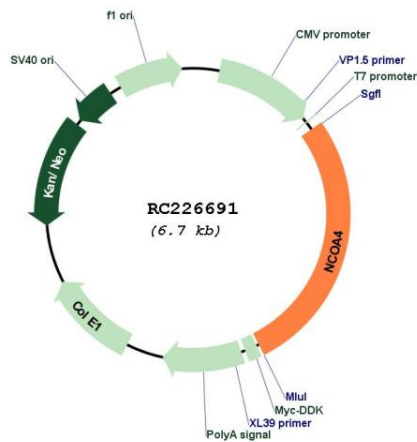
RefSeq: [NM_001145262.1](#), [NP_001138734.1](#)

RefSeq Size: 3588 bp

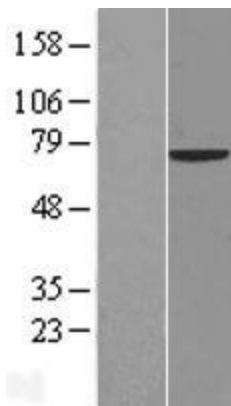
RefSeq ORF: 1845 bp

Locus ID: 8031
UniProt ID: [Q13772](#)
Cytogenetics: 10q11.22
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: Pathways in cancer, Thyroid cancer
MW: 69.7 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]

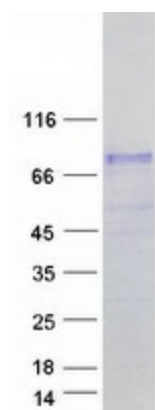
Product images:



Circular map for RC226691



Western blot validation of overexpression lysate (Cat# [LY428771]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226707] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NCOA4 protein (Cat# [TP326691]). The protein was produced from HEK293T cells transfected with NCOA4 cDNA clone (Cat# RC226691) using MegaTran 2.0 (Cat# [TT210002]).