

Product datasheet for **RG226707**

NCOA4 (NM_001145263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NCOA4 (NM_001145263) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NCOA4
Synonyms:	ARA70; ELE1; PTC3; RFG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226707 representing NM_001145263
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATACCTTCCAAGACCAGAGTGGCAGCTCCAGTAATAGAGAACCCTTTTGGAGTGTAGTGATGCAC
 GGAGGGACTTGGAGCTTGCTATTGGTGGAGTCTCCGGGCTGAACAGCAAATTAAGATAACTTGGGAGA
 GGTCAAAGCTCAGATTCACAGTTGCATAAGCCGTCACCTGGAATGTCTTAGAAGCCGTGAGGTATGGCTG
 TATGAACAGGTGGACCTATTTATCAGCTTAAAGAGGAGACACTCAACAGCAGGCTCAGCAGCTCTACT
 CGTTATTGGGCCAGTTCAATTGTCTTACTCATCAACTGGAGTGTACCCAAAACAAAGATCTAGCCAAATCA
 AGTCTCTGTGTGCTGGAGAGACTGGGCAGTTGACCCTTAAGCCTGAAGATTCAACTGTCCTGCTCTTT
 GAAGCTGACACAATTACTCTGCGCCAGACCATCACCACATTTGGGTCTCTCAAACCATTCAAATTCCTG
 AGCACTTGATGGCTCATGCTAGTTCAGCAAATATTGGGCCCTTCTGGAGAAGAGAGGCTGTATCTCCAT
 GCCAGAGCAGAAGTCAGCATCCGGTATTGTAGCTGCCCTTTCAGCGAATGGCTCCTTGGAAAGCAAACCT
 GCCAGTGGTTATCAAGCTCCTTACATACCCAGCACCGACCCCGAGACTGGCTTACCCAAAAGCAGACCT
 TGGAGAACAGTCAGACTTCTTCCAGAGCCTGCAATTTCTCAATAATGTGGGGGAAACCTAAAGGGCTT
 AGAAAACCTGGCTCCTCAAGAGTGAAAAATCAAGTTATCAAAAGTGAACAGCCATTCCACTACTAGTTCT
 TTCTCCATTGAAATGGAAAAGGTTGGAGATCAAGAGCTTCTGATCAAGATGAGATGGACCTATCAGATT
 GGCTAGTGACTCCCAGGAATCCCATAGCTGCGGAAGCCTGAGAATGGCAGTCGTGAAACCAGTGAGAA
 GTTTAAGCTCTTATTCCAGTCTATAATGTGAATGATTGGCTTGCAAGACTGACTCCTGTACCAACTGT
 CAGGGAAACCAGCCAAAGGTGTGGAGATTGAAAACCTGGGCAATCTGAAGTGCCTGAATGACCATTGG
 AGCCAAAGAAACCATTGTCCACCCAGCATGGTTACAGAGGATTGGCTTGTCCAGAACCATCAGGACCC
 ATGTAAGGTAGAGGAGGTGTGCAGAGCCAATGAGCCCTGCACAAGCTTTCAGAGTGTGTGTGATGAG
 AATTGTGAGAAGGAGGCTCTGTATAAGTGGCTTCTGAAGAAAGAAGGAAAGGATAAAAAATGGGATGCCTG
 TGGAAACCAAACCTGAGCCTGAGAAGCATAAAGATTCCCTGAATATGTGGCTCTGTCTAGAAAAGAAGT
 AATAGAACAAACTAAAGCACAAAGGCAATGACTCCTTCTAGAATTGCTGATTCTTCCAAGTCATAAAG
 AACAGCCCCTTGTGGAGTGGCTTATCAGGCCCCATACAAGAAGGAAGTCCCAAGGAAGTGCCTGGTA
 CTGAAGACAGAGCTGGCAAACAGAAGTTTAAAAGCCCATGAATACTTCTGGTGTCTCTTAAACACAGC
 TGACTGGTCTGCCAGGAAAGAAGATGGGCAACCTCAGCCAGTTATCTTCTGGAGAAGACAAGTGGCTG
 CTTGAAAGAAGGCCAGGAAGTATTACTTAATTCACCTCTACAGGAGGAACATAACTTCCCCCAGACC
 ATTATGGCTCCCTGCAGTTTGTGATCTTTGCCTGTATGCAGCTTAAAGTTGATAAAGAGAAGTGTT
 ATATCGAACTCCTCTACAGATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226707 representing NM_001145263
 Red=Cloning site Green=Tags(s)

MNTFQDQSGSSSNREPLLRCSDDARRDLELAIGGVLRAEQQIKDNLREVKAQIHSCISRHLECLRSREVWL
 YEQVDLIYQLKEETLQQQAQQLYSLGQFNCLTHQLECTQNKDLANQVSVCLERLGSLLKPEDSTVLLF
 EADTITLRQTITTFGLKTIQIPEHLMHASSANIGPFLEKRGCSMPEQKSASGIVAVPFSEWLLGSKP
 ASGYQAPYIPSTDPODWLTQKQLENSQTSRACNFFNNVGGNLKLENWLLKSEKSSYQKCNHSTTSS
 FSIEMEKVGDQELPDQDEMDLSDWL VTPQESHKLRKPENGSRETSEKFKLLFQSYNVNDWL VKTDSCNTC
 QGNQPKGVEIENLGNLKLNDHLEAKKPLSTPSMVTEDWL VQNHQDPCKVEEVCNANEPCTSF AECVCDE
 NCEKEALYKWLKKEGKDKNGMPVEPKPEPEKHKDSLNMWLCPRKEVIEQTKAPKAMTPSRIADSFQVIK
 NSPLSEWLIRPPYKEGSPKEVPGTEDRAGKQKFKSPMNTSWCSFNADWVLP GKMKMNLSQLSSGEDKWL
 LRKKAQEVLLNSPLQEEHNFPPDHYGLPAVCDLFACMQLKVDKEKWL YRTP LQM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001145263

ORF Size: 1842 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

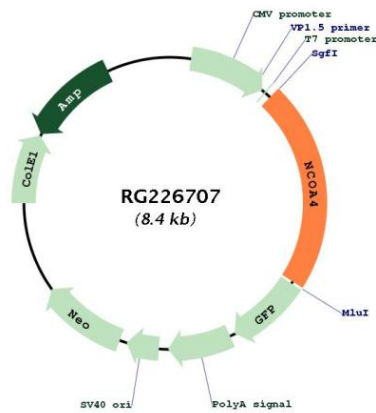
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001145263.1](#), [NP_001138735.1](#)

RefSeq Size:	3562 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
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 RG226707