

Product datasheet for **MC229574**

Ncoa2 (NM_001302702) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ncoa2 (NM_001302702) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ncoa2
Synonyms: bHLHe75; D1Ertd433e; GRIP-1; Grip1; KAT13C; NCoA-2; SRC-2; TIF2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229574 representing NM_001302702
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGGGATGGGAGAAAAACCTCTGACCCGTCAGGGCAGAGACCAGAAAACGCAAGGAATGTCCCG
ACCAGCTCGGACCCAGCCCCAAAAGGAGCACTGAGAAAACGGAACCGCAGCAGGAGAATAAGTACATAGA
GGAGCTGGCCGAGCTGATCTTCGCAAATTTAATGATATTGACAACCTCAACTTCAAACCTGACAAATGT
GCCATCTAAAAGAACTGTGAAGCAGATCCGCCAGATCAAAGAGCAAGAGAAAGCAGCAGCTGCCAACA
TAGATGAAGTGCAGAAAGTCAAGTGTGTCGTCACGGGGCAGGGTGTATCGACAAGGATGCACTGGGGCC
CATGATGCTTGAGGCCCTCGATGGGTTCTTCTCGTTGTGAACCTGGAAGGCAGTGTGGTGTTCGTGTCA
GAGAATGTGACACAGTATCTACGGTATAACCAAGAAGAGCTGTGAACAAGAGTGTCTACAGCATCCTGC
ATGTCGGGGACCACACTGAATTTGTCAAGAACCTGCTGCCAAAGTCCATGGTGAATGGAGGATCCTGGTC
TGGAGAACCTCCCAGGCGGAGCAGCCATACCTCAACTGTGCATGCTGGTGAAGCCTTTGCCAGATTCA
GAAGAGGAAGCCATGATAGCCAGGAAGCCATCAGAAATACGAGGCGATGCAGTCTTCGCTGTGTCTC
AGCCAAAGTCCATCAAAGAGGAAGGCGAAGATTTGCAGTCTGCTTGTATTGTGTGGCAGGAAGAGTCCC
CATGAAGGAAAGACCAACTCTTCCCTCATCAGAAAGCTTTACCACCCGCCAGGACCTCAAAGGCAAGATC
ACTTCACTGGACACTAGCACCATGAGAGCCGCCATGAAGCCGGGCTGGGAAGATCTGTAAGAAGATGCA
TTCAGAAGTTCACACACAGCATGAAGGGGAGTCTCTATCATATGCCAAGAGGCATCACCATGAAGTTCT
GAGACAAGGGTTGGCGTTCAGTCAGATCTATCGTTTTTCTTTGTCTGATGGCACTCTCGTTGCTGCACAA
ACCAAGAGCAAATCATCCGTTCTCAGACTACTAATGAGCCTCAGCTTGAATATCTTTACACATGCTTC
ACAGAGAGCAGAATGTATGTGAATGAATCCGGATCTGACTGGACAAGCGATGGGGAAGCCATTGAATCC
AATTAGCTCTAGCAGCCCTGCCACCAGGCCCTGTGCAGTGGGAACCCAGGTGAGACATGACCCTCGGT
AGCAATATAAATTTCCCATGAATGGCCAAAGGAACAAATGGGCATGCCTATGGGCAGGTTTGGTGGTT
CTGGGGGCATGAACCATGTGTCAGGCATGCAAGCAACCACTCCTCAGGGTAGTAACATATGCACTCAAAT
GAACAGTCCCTCGAAAGCAGCCCCGGCATGAACCCGGGGCAAGCCAGCTCCGTGCTCTCCCAAGGCAG
CGCATGAGCCCCGGCGTGGCTGGCAGTCTCGCATCCCACCCAGTCAGTTTTCCCTGCAGGAAGCTTGC



ATTCCCCTGTGGGAGTTTGCAGCAGCACAGGAAATAGCCATAGTTATACCAACAGTTCCTCAATGCACT
 GCAAGCCCTCAGCGAGGGCCATGGGGTCTCACTCGGGTCTCGCTGGCTTACCCGGACCTAAAAATGGGC
 AATTTGCAAACTCCCCAGTTAATATGAATCCTCCCCACTCAGCAAGATGGGAAGCTTGGACTCCAAAG
 ACTGTTTTGGACTTTATGGGGAGCCCTCAGAAGGTACAACCTGGACAAGCAGAGGGCCAGCTGCCATCCTGA
 AGAACAAAAGGGGCCAATGATTCCAGCATGCCCCAGGCGCCAGCGGGACAGGGCTGAGGGACACAGC
 CGGCTGCATGACAGCAAAGGGCAGACCAAACCTCTGCAGCTGTGACCACCAAGTCCGACCAGATGGAGC
 TTCCACCTTGCCCAGCTCCTTGTGCGACACAACAAGGACTCAACAGGGAGCTTGCCTGGCCCTGGGT
 CAGCATGGCACCTCGCTCAAGGAGAAGCATAAGATTTTGCACAGACTTTACAGGACAGCAGTTCSCCT
 GTGGACTTGCCAAAGCTGACAGCAGAAGCCACAGGCAAAGAGCTGAGCCAGGAGTCCAGCAGCACAGCTC
 CTGGGTCGGAAGTGACTGTCAAACAGGAGCCAGCGAGCCCAAGAAGAAAGAGAATGCACTACTGCGCTA
 TTTGCTCGACAAAGATGATACTAAAGATATTGGTTTACCGGAAATAACCCCAAACCTCGAGCGACTGGAC
 AGTAAGACAGATCCTGCCAGTAACACAAAGTTAATTGCTATGAAAAGTGTGAAGGAGGAGGTGAGCTTTG
 AGCCAGTGACCAGCCTGGCAGCGAGCTGGACAACCTGGAAGAGATTTTGGATGATTTGCAGAACAGTCA
 GTTACCACAGCTTTTCCAGACACAAGGCCAGGAGCTCCTACTGGGTGAGTTGACAAGCAAGCCATCATC
 AATGACCTCATGCAACTCACAGCTGACAGCAGTCCCGTCCACCTGCCGGAGCCAGAAGGCAGCACTGC
 GCATGTACAGAGCAGAATGATTGGCAGCAGCACTTCCCGGCCAGCATGCCTTCTGGGGAATGGGCACC
 ACAGAGTCCAGCTGTGAGAGTCACTTGTGCTGCTACCACTGGTGCCATGAACCGACCAGTCCAAGGAGGC
 ATGATTCGGAACCAACAGCCAGCATCCCATGCGAGCCAACAGCCAGCCTGGCCAAAGACAGATGCTTC
 AGTCTCAGGTCATGAACATAGGCCCTTCTGAGTTAGAGATGAACATGGGAGGACCTCAGTATAATCAACA
 GCAGGCCCTCCGAACAAACTGCCCGTGGCCTGAGAGCATCCTGCCTATAGACCAGGCATCGTTTGGC
 AGCCAGAACAGGCAGCCCTTCCGAGCTCCCCTGATGACCTGTGTCCACATCCTGCAGCAGAGTCCG
 CAAGCGATGAGGGCGCTCTTCTTGACCAGCTGTATCTGGCCTTGGGAACTTCGATGGCCTTGGAGAGT
 TGATAGAGCTCTGGGGATACCAGAAGTGTGACCCAGGCAAGCTGTGGATGCAGAGCAGTCTCAAGT
 CAGGAGTCCAGCATAATGCTGGAGCAGAAGCCCGTTCCTCCACAGCAGTACGCATCTCAGGCACAAA
 TGGCCAGGGTGGCTATAATCCCATGCAAGATCCAAACTTTCACACCATGGGACAGCGGCCAAATACAC
 CACTCCGATGACAGCCACGGCCAGGCCCTCAGGCCACAGGCATTGTGCAGAACCAGCCAAACCAACTG
 AGACTTCAGTTCAGCACCCGCTCCAAGCACAGCAGAATCGCCAGCCGCTTATGAATCAGATCAGCAGTG
 TTTCCAATGTGAACCTGACTCTGAGGCCTGGAGTGCCCACTCAGGCTCCTAATATGCACAGATGCTGGC
 CCAGAGGCAGAGGAAATCCTCAACCAACATCTTCGGCAGAGACAGATGCAGCAGCAGGTGCAGCAGCG
 ACTTTGATGATGAGAGGACAGGGCTTGAATGTGACCCCAAGCATGGTGGTCCCCTGGCCTACCAGCAG
 CCATGAGCAATCCCGGATCCCCAGGCCAATGCCAGCAGTTCCTATTTCTCCGAACTACGGAATAAG
 TCAACAACTGATCCTGGCTTACTGGGCTACAACCTCCAGAGTCTCTAATGTCTCCCGGATGGCA
 CATACTCAGAGTCCCATGATGCAGCAGTCTCAAGCCAACCCAGCCTACCAGCCCACCTCAGACATGAATG
 GATGGGCACAGGGGAGCATGGGTGGAAACAGCATGTTCTCACAGCAGTCCCACCACACTTTGGGCAACA
 AGCAAACACCAGCATGTATAGTAACAACATGAACATCAGTGTGTGATGGCAACCAACACGGGTGGCTTG
 AGCAGCATGAACCAGATGACAGGCCAGATGAGCATGACCTCAGTGACCTCCGTGCCTACGTCAGGACTGC
 CCTCCATGGGTCCCGAGCAGGTCAATGACCCTGCTCTGAGGGGAGGCAACCTTTTCCAAACCAACTGCC
 TGGAATGGACATGATCAAGCAGGAGGGAGATGCATCTCGGAAACTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001302702

Insert Size:

4182 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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001302702.1</u> , <u>NP_001289631.1</u>
RefSeq Size:	8180 bp
RefSeq ORF:	4182 bp
Locus ID:	17978
Cytogenetics:	1 4.12 cM
Gene Summary:	<p>Transcriptional coactivator for steroid receptors and nuclear receptors. Coactivator of the steroid binding domain (AF-2) but not of the modulating N-terminal domain (AF-1). Required with NCOA1 to control energy balance between white and brown adipose tissues. Critical regulator of glucose metabolism regulation, acts as RORA coactivator to specifically modulate G6PC expression. Involved in the positive regulation of the transcriptional activity of the glucocorticoid receptor NR3C1 by sumoylation enhancer RWDD3. Positively regulates the circadian clock by acting as a transcriptional coactivator for the CLOCK-ARNTL/BMAL1 heterodimer (PubMed:24529706).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (c) differs in the 5' UTR and lacks an in-frame exon compared to variant a. The encoded isoform (b) is shorter than isoform a.</p>