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Product datasheet for MR211963

Ncoa2 (NM_001077695) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ncoa2 (NM_001077695) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ncoa2
Synonyms:	9530095N19; bHLHe75; D1Ertd433e; GRIP-1; Grip1; KAT13C; SRC-2; TIF-2; TIF2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR211963 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGGGATGGGAGAAAACACCTCTGACCCGTCCAGGGCAGAGACCAGAAAACGCAAGGAATGTCCCG ACCAGCTCGGACCCAGCCCCAAAAGGAGCACTGAGAAACGGAACCGCGAGCAGGAGAATAAGTACATAGA GGAGCTGGCCGAGCTGATCTTCGCAAACTTTAATGATATTGACAACTTCAACTTCAAACCTGACAAATGT GCCATCCTAAAAGAAACTGTGAAGCAGATCCGCCAGATCAAAGAGCAAGAGAAAGCAGCAGCTGCCAACA TAGATGAAGTGCAGAAGTCAGATGTGTCGTCCACGGGGCAGGGTGTCATCGACAAGGATGCACTGGGGCC CATGATGCTTGAGGCCCTCGATGGGTTCTTCTTCGTTGTGAACCTGGAAGGCAGTGTGGTGTTCGTGTCA GAGAATGTGACACAGTATCTACGGTATAACCAAGAAGAGCTGATGAACAAGAGTGTCTACAGCATCCTGC ATGTCGGGGACCACACTGAATTTGTCAAGAACCTGCTGCCAAAGTCCATGGTGAATGGAGGATCCTGGTC TGGAGAACCTCCCAGGCGGAGCAGCCATACCTTCAACTGTCGCATGCTGGTGAAGCCTTTGCCAGATTCA GAAGAGGAAGGCCATGATAGCCAGGAAGCCCATCAGAAATACGAGGCGATGCAGTGCTTCGCTGTGTCTC AGCCCAAGTCCATCAAAGAGGAAGGCGAAGATTTGCAGTCCTGCTTGATTTGTGTGGCACGAAGAGTCCC CATGAAGGAAAGACCAACTCTTCCCTCATCAGAAAGCTTTACCACCCGCCAGGACCTCCAAGGCAAGATC ACTTCACTGGACACTAGCACCATGAGAGCCGCCATGAAGCCGGGCTGGGAAGATCTGGTAAGAAGATGCA TTCAGAAGTTCCACACACAGCATGAAGGGGAGTCTCTATCATATGCCAAGAGGCATCACCATGAAGTTCT GAGACAAGGGTTGGCGTTCAGTCAGATCTATCGTTTTTCTTTGTCTGATGGCACTCTCGTTGCTGCACAA ACCAAGAGCAAACTCATCCGTTCTCAGACTACTAATGAGCCTCAGCTTGTAATATCTTTACACATGCTTC ACAGAGAGCAGAATGTATGTGTAATGAATCCGGATCTGACTGGACAAGCGATGGGGAAGCCATTGAATCC AATTAGCTCTAGCAGCCCTGCCCACCAGGCCCTGTGCAGTGGGAACCCAGGTCAGGACATGACCCTCGGT AGCAATATAAATTTTCCCATGAATGGCCCAAAGGAACAAATGGGCATGCCTATGGGCAGGTTTGGTGGTT CTGGGGGCATGAACCATGTGTCAGGCATGCAAGCAACCACTCCTCAGGGTAGTAACTATGCACTCAAAAT GAACAGTCCCTCGCAAAGCAGCCCCGGCATGAACCCGGGGCAAGCCAGCTCCGTGCTCTCCCCAAGGCAG CGCATGAGCCCCGGCGTGGCTGGCAGTCCTCGCATCCCACCCAGTCAGTTTTCCCCTGCAGGAAGCTTGC

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Protein Sequence:

>MR211963 protein sequence
Red=Cloning site Green=Tags(s)

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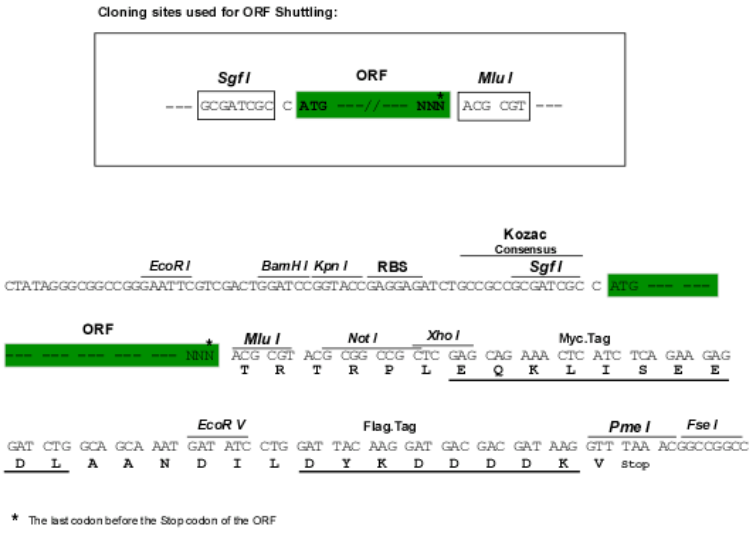
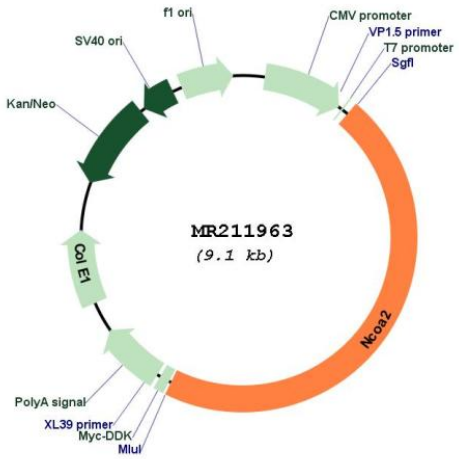
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001077695
ORF Size:	4179 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_001077695.1, NP_001071163.1
RefSeq Size:	8006 bp
RefSeq ORF:	4182 bp
Locus ID:	17978
Cytogenetics:	1 4.12 cM

MW:	151.4 kDa
Gene Summary:	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]