

Product datasheet for **MC216985**

Nr5a2 (NM_001159769) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr5a2 (NM_001159769) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nr5a2
Synonyms:	AU020803; D1Ertd308e; Ftf; LRH-1; UF2-H3B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216985 representing NM_001159769
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCCAAAGTGGAGACGGAAGCCCCAGGACTGGTCCGATCGCATGGGAACAGGGGCAGATGCCAG
AAAACATGCAAGTGTCTCAATTTAAAATGGTGAATTACTCCTATGATGAAGATCTGGAAGAGCTATGTCC
TGTGTGTGGCGATAAAGTGTCTGGGTACCATACGGTCTCCTCACGTGCGAAAGCTGCAAGGTTTTTTTT
AAGCGAACTGTCCAAAACAAAAAGGTACACGTGCATAGAGAACCAGAATTGCCAAATTGACAAAAACGC
AGAGAAAAACGATGTCCCTACTGTGATTCAAAAAATGTATCGATGTTGGGATGAAGCTGGAAGCCGTAAG
AGCCGACCGCATGCGAGGGGGCAGAAAATAAGTTTGGGCAATGTACAAGAGAGACAGGGCTTTGAAGCAG
CAGAAGAAAGCCCTCATTGAGCCAATGGACTTAAGCTGGAAGCCATGTCTCAGGTGATCCAAGCAATGC
CCTCAGACCTGACCTCTGCAATTCAGAACATTCATTCCGCCTCAAAGGCCTACCTCTGAGCCATGTAGC
CTTGCCCTCGACAGACTATGACAGAAGTCCCTTTGTACATCTCCATTAGCATGACAATGCCACCTCAC
AGCAGCCTGCATGGTTACCAACCTATGGTCACTTTCTAGTCGGGCCATCAAGTCTGAGTACCCAGACC
CCTACTCCAGCTCACCTGAGTCAATGATGGGTTACTCCTACATGGATGGTTACCAGACAAACTCCCCGGC
CAGCATCCACACCTGATACTGGAACCTTTGAAGTGTGAACCAGATGAGCCTCAAGTTCAAGCGAAGATC
ATGGCTTACCTCCAGCAAGAGCAGATAACCGAAACAGGCAAGAAAAGCTGAGCGCATTTGGGCTTTTAT
GCAAAATGGCGGACCAGACCCTGTTCTCCATTGTTGAGTGGGCCAGGAGTAGTATCTTCTCAGGGAAC
GAAGGTTGATGACCAATGAAGCTGCTTCAAACTGCTGGAGTGAAGCTCTTGATTCTCGATCACATTTAC
CGACAAGTGGCGCATGGGAAGGAAGGGACAATCTTCTGGTACTGGAGAACACGTGGACTACTCCACCA
TCATCTCACACACAGAAGTCGCGTTCAACAACCTCCTGAGTCTCGCACAGGAGCTGGTGGTGAGGCTCCG
TTCCCTTCAGTTCGATCAGCGGGAGTTTGTATGTCTCAAGTTCCTGGTGCTGTTTCAGCTCAGATGTGAAG
AACCTGGAGAACCTGCAGCTGGTGAAGGTGTCCAAGAGCAGGTGAATGCCGCCCTGCTGGACTACACGG
TTTGCAACTACCCACAACAGACTGAGAAATTCGGACAGCTACTTCTTCGGCTACCCGAGATCCGGGCAAT
CAGCAAGCAGGCAGAAGACTACCTGTACTATAAGCACGTGAACGGGGATGTGCCCTATAATAACCTCCTC
ATTGAGATGCTGCATGCCAAAAGAGCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001159769

Insert Size: 1500 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).

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_001159769.2](#), [NP_001153241.1](#)

RefSeq Size: 3635 bp

RefSeq ORF: 1500 bp

Locus ID: 26424

Cytogenetics: 1 E4

Gene Summary: Nuclear receptor that acts as a key metabolic sensor by regulating the expression of genes involved in bile acid synthesis, cholesterol homeostasis and triglyceride synthesis. Together with the oxysterol receptors NR1H3/LXR-alpha and NR1H2/LXR-beta, acts as an essential transcriptional regulator of lipid metabolism. Plays an anti-inflammatory role during the hepatic acute phase response by acting as a corepressor: inhibits the hepatic acute phase response by preventing dissociation of the N-Cor corepressor complex. Key regulator of cholesterol 7-alpha-hydroxylase gene (CYP7A) expression in liver. May also contribute to the regulation of pancreas-specific genes and play important roles in embryonic development (By similarity). Activates the transcription of CYP2C38 (PubMed:30555544).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region compared to variant 1. The resulting isoform (2) contains a distinct and shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.