

## Product datasheet for **MR225371**

### **Nr5a2 (NM\_030676) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nr5a2 (NM_030676) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr5a2
Synonyms:	AU020803; D1Ertd308e; Ftf; LRH-1; UF2-H3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225371 representing NM\_030676  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCTGCTAGTTTGGACTACTGGAGATTTCAAGAATTTCTTAAGCATGGACTTACAGCTATTGCGTCTG  
 CACCAGGGTCAGAGACTCGCCACTCCCCAAACGTGAGGAACAACCTCCGGGAAAAACGTGCTGGGCTTCC  
 GGACCGACACCGACGCCCATTCGCCCGCCGACCGCCTTGTCATGCTGCCCAAAGTGGAGACGGAAGCC  
 CCAGGACTGGTCCGATCGCATGGGAACAGGGGCAGATGCCAGAAAAATGCAAGTGTCTCAATTTAAAA  
 TGGTGAATTACTCCTATGATGAAGATCTGGAAGAGCTATGTCCTGTGTGGCGATAAAGTGTCTGGGTA  
 CCATTACGGTCTCCTCACGTGCGAAAGCTGCAAGGGTTTTTTAAGCGAACTGTCCAAAACAAAAAAGG  
 TACACGTGCATAGAGAACCAGAATTGCCAAATGACAAAACGAGAGAAAACGATGTCCCTACTGTCGAT  
 TCAAAAAATGTATCGATGTTGGGATGAAGCTGGAAGCCGTAAGAGCCGACCGCATGCGAGGGGGCAGAAA  
 TAAGTTTGGGCCAATGTACAAGAGAGACAGGGCTTTGAAGCAGCAGAAGAAAGCCCTCATTGAGCCAAT  
 GGACTTAAGCTGGAAGCCATGTCTCAGGTGATCCAAGCAATGCCCTCAGACCTGACCTCTGCAATTCAGA  
 ACATTCATTCCGCCTCCAAGGCCACCTCTGAGCCATGTAGCCTTGCCCTCCGACAGACTATGACAGAAG  
 TCCCTTTGTCACATCTCCATTAGCATGACAATGCCACCTCACAGCAGCCTGCATGGTTACCAACCCAT  
 GGTCACTTTCTAGTCGGGCCATCAAGTCTGAGTACCCAGACCCCTACTCCAGCTCACCTGAGTCAATGA  
 TGGGTTACTCCTACATGGATGGTTACCAGACAACTCCCCGGCCAGCATCCACACCTGATACTGGAAC  
 TTTGAAGTGTGAACCAGATGAGCCTCAAGTTCAGCGAAGATCATGGCTTACCTCCAGCAAGAGCAGAGT  
 AACCGAAACAGCAAGAAAAGCTGAGCGCATTTGGGCTTTTATGCAAAAATGGCGGACCAGACCCTGTTCT  
 CCATTGTTGAGTGGGCCAGGAGTAGTATCTTCTCAGGGAACGAAGTTGATGACCAAAATGAAGCTGCT  
 TCAAAACTGCTGGAGTGAGCTCTTGATTCTCGATCACATTTACCGACAAGTGGCGCATGGGAAGGAAGGG  
 ACAATCTTCTGTTACTGGAGAACACGTGGACTACTCCACCATCATCTCACACACAGAAGTCGCGTTCA  
 ACAACCTCCTGAGTCTCGCACAGGAGCTGGTGGTGAAGCTCCGTTCCCTCAGTTCGATCAGCGGGAGTT  
 TGTATGTCTCAAGTTCCTGGTGTGTTGAGTCTGATGTGAAGAACCTGGAGAACCTGCAGCTGGTGGAA  
 GGTGTCCAAGAGCAGGTGAATGCCGCCCTGCTGGACTACACGTTTGAACCTACCCACAACAGACTGAGA  
 AATTCCGACAGCTACTTCTCGGCTACCCGAGATCCGGGCAATCAGCAAGCAGGCAGAAGACTACCTGTA  
 CTATAAGCACGTGAACGGGGATGTGCCCTATAATAACCTCCTCATTGAGATGCTGCATGCCAAAAGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225371 representing NM\_030676  
 Red=Cloning site Green=Tags(s)

MSASLDTGDFQEFLKHGLTAIASAPGSETRHSPKREEQLREKRAGLPDRHRRPIPARSRLVMLPKVETEA  
 PGLVRSHGEGQMPENMQVSQFKMVNYSYDEDLEELCPVCGDKVSGYHYGLLTCECKGFFKRTVQNQKR  
 YTCIENQNCQIDKTQRKRCPCYCRFKKCIDVGMKLEAVRADMRGGRNKFPGMYKRDRAKQKKALIRAN  
 GLKLEAMSQVIQAMPSDLTSAIQNIHSASKGLPLSHVALPPTDYDRSPFVTSPISMTMPHSSLHGYPY  
 GHFPSRAIKSEYPDPYSSPESMMGYSYMDGYQTNPASIPHLILELLKCEPDEPQVQAKIMAYLQQEQS  
 NNRNRQELSAFGLLCKMADQTLFSIVWARSSIFFRELKVDDQMKLLQNCWSELLILDHIYRQVAHGKEG  
 TIFLVTGEHVDYSTIISHTEVAFNLLSLAQELVVRLRSLQFDQREFVCLKFLVLFSSDVKNLENLQVE  
 GVQEQVNAALLDYTCNYPQQTEKFGQLLLRLEPEIRAIKQAEDYLYYKHVNGDVPYNNLLIEMLHAKRA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9032\\_e06.zip](https://cdn.origene.com/chromatograms/mm9032_e06.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_030676

**ORF Size:** 1680 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\\_030676.3](#), [NP\\_109601.1](#)

**RefSeq Size:** 3720 bp

**RefSeq ORF:** 1683 bp

**Locus ID:** 26424

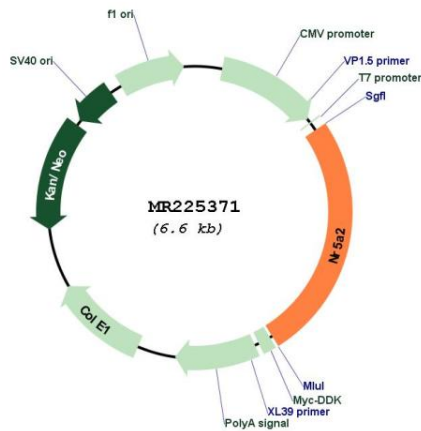
**UniProt ID:** [P45448](#)

**Cytogenetics:** 1 E4

**MW:** 64.5 kDa

**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]

**Product images:**



Circular map for MR225371