

Product datasheet for **MG225372**

Nr5a2 (NM_001159769) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr5a2 (NM_001159769) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nr5a2
Synonyms:	AU020803; D1Ertd308e; Ftf; LRH-1; UF2-H3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225372 representing NM_001159769
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGCTAGTTTGGACTACTGGAGATTTCAAGAATTTCTTAAGCATGGACTTACAGCTATTGCGTCTG
 CACCAGGGTCAGAGACTCGCCACTCCCCAAACGTGAGGAACAACCTCCGGGAAAAACGTGCTGGGCTTCC
 GGACCGACACCGACGCCCATTCGCCGCCGACGCCCTTGTCTGCTGCCCAAAGTGGAGACGGAAGCC
 CCAGGACTGGTCCGATCGCATGGGAACAGGGGCAGATGCCAGAAAAATGCAAGTGTCTCAATTTAAAA
 TGGTGAATTACTCCTATGATGAAGATCTGGAAGAGCTATGTCCTGTGTGGCGATAAAGTGTCTGGGTA
 CCATTACGGTCTCCTCACGTGCGAAAGCTGCAAGGGTTTTTTAAGCGAACTGTCCAAAACAAAAAAGG
 TACACGTGCATAGAGAACCAGAATTGCCAAATTGACAAAACGAGAGAAAACGATGTCCCTACTGTCGAT
 TCAAAAAATGTATCGATGTTGGGATGAAGCTGGAAGCCGTAAGAGCCGACCGCATGCGAGGGGGCAGAAA
 TAAGTTTGGGCCAATGTACAAGAGAGACAGGGCTTTGAAGCAGCAGAAGAAAGCCCTCATTGAGCCAAT
 GGACTTAAGCTGGAAGCCATGTCTCAGGTGATCCAAGCAATGCCCTCAGACCTGACCTCTGCAATTCAGA
 ACATTCATTCCGCCTCCAAAGGCCACCTCTGAGCCATGTAGCCTTGCCCTCCGACAGACTATGACAGAAG
 TCCCTTTGTACATCTCCATTAGCATGACAATGCCACCTCACAGCAGCCTGCATGGTTACCAACCCAT
 GGTCACTTTCTAGTCGGCCATCAAGTCTGAGTACCCAGACCCCTACTCCAGCTCACCTGAGTCAATGA
 TGGGTTACTCCTACATGGATGGTTACCAGACAACTCCCCGGCCAGCATCCCACACCTGATACTGGAAC
 TTTGAAGTGTGAACCAGATGAGCCTCAAGTTCAGCGAAGATCATGGCTTACCTCCAGCAAGAGCAGAGT
 AACCAGAACAGCAAGAAAAGCTGAGCGCATTTGGGCTTTTATGCAAAAATGGCGGACCAGACCCTGTTCT
 CATTGTTGAGTGGGCCAGGAGTAGTATCTTCTCAGGGAAGTGAAGTTGATGACCAAAATGAAGTGTCT
 TCAAAACTGCTGGAGTGAGCTCTTGATTCTCGATCACATTTACCGACAAGTGGCGCATGGGAAGGAAGGG
 ACAATCTTCTGTTACTGGAGAACACGTGGACTACTCCACCATCATCTCACACACAGAAGTCGCGTTCA
 ACAACCTCCTGAGTCTCGCACAGGAGCTGGTGGTGGGCTCCGTTCCCTCAGTTCGATCAGCGGGAGTT
 TGTATGTCTCAAGTTCCTGGTGTGTTGAGTCTGATGTGAAGAACCTGGAGAACCTGCAGCTGGTGGAA
 GGTGTCCAAGAGCAGGTGAATGCCGCCCTGCTGGACTACACGTTTGAACCTACCCACAACAGACTGAGA
 AATTCCGACAGCTACTTCTCGGCTACCCGAGATCCGGGCAATCAGCAAGCAGGCAGAAGACTACCTGTA
 CTATAAGCACGTGAACGGGGATGTGCCCTATAATAACCTCCTCATTGAGATGCTGCATGCCAAAAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225372 representing NM_001159769
 Red=Cloning site Green=Tags(s)

MSASLDTGDFQEFKHLTAIASAPGSETRHSPKREEQLREKRAGLPDRHRRPIPARSRLVMLPKVETEA
 PGLVRSHGEGQMPENMQVSQFKMVNYSYDEDLEELCPVCGDKVSGYHYGLLTCECKGFFKRTVQNKR
 YTCIENQNCQIDKTQRKRCPCYRFKCIDVGMKLEAVRADMRGGRNKFPMYKRDRAKQKQKALIRAN
 GLKLEAMSQVIQAMPDLTSAIQNIHSASKGLPLSHVALPPTDYDRSPFVTSPISMTMPHSSLHGYPY
 GHFPSRAIKSEYPDPYSSSPESMMGYSYMDGYQTNPSASIPHLILELLKCEPDEPQVQAKIMAYLQQEQS
 NRRNRQEKLSAFGLLCKMADQTLFSIVEWARSSIFFRELKVDDQMKLLQNCWSELLILDHIYRQVAHGKEG
 TIFLVTGEHVDYSTIISHTEVAFNNLLSLAQELVVRLRSLQFDQREFVCLKFLVLFSSDVKNLENLQVE
 GVQEQVNAALLDYTVCNYPQQTEKFGQLLLRLPEIRAISKQAEDYLYYKHVNGDVPYNNLLIEMLHAKRA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001159769

ORF Size: 1497 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_001159769.2](#), [NP_001153241.1](#)

RefSeq Size: 3635 bp

RefSeq ORF: 1500 bp

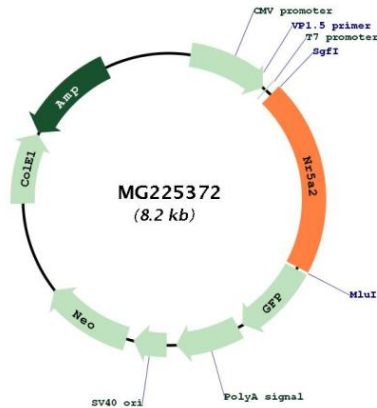
Locus ID: 26424

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]

Product images:



Circular map for MG225372