OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR225372

Nr5a2 (NM_001159769) Mouse Tagged ORF Clone

Product data:

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

View online »

ORF Nucleotide Sequence:

>MR225372 representing NM_001159769
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGCTAGTTTGGATACTGGAGATTTTCAAGAATTTCTTAAGCATGGACTTACAGCTATTGCGTCTG
CACCAGGGTCAGAGACTCGCCACTCCCCCAAACGTGAGGAACAACTCCGGGAAAAACGTGCTGGGCTTCC
GGACCGACACCGACGCCCCATTCCCGCCCGCAGCCGCCTTGTCATGCTGCCCAAAGTGGAGACGGAAGCC
CCAGGACTGGTCCGATCGCATGGGGAACAGGGGCAGATGCCAGAAAACATGCAAGTGTCTCAATTTAAAA
TGGTGAATTACTCCTATGATGAAGATCTGGAAGAGCTATGTCCTGTGTGTGGCGATAAAGTGTCTGGGTA
CCATTACGGTCTCCTCACGTGCGAAAGCTGCAAGGGTTTTTTTAAGCGAACTGTCCAAAACCAAAAAAGG
TACACGTGCATAGAGAACCAGAATTGCCAAATTGACAAAACGCAGAGAAAACGATGTCCCTACTGTCGAT
TCAAAAAATGTATCGATGTTGGGATGAAGCTGGAAGCCGTAAGAGCCGACCGCATGCGAGGGGGCAGAAA
TAAGTTTGGGCCAATGTACAAGAGAGACAGGGCTTTGAAGCAGCAGAAGAAAGCCCTCATTCGAGCCAAT
GGACTTAAGCTGGAAGCCATGTCTCAGGTGATCCAAGCAATGCCCTCAGACCTGACCTCTGCAATTCAGA
ACATTCATTCCGCCTCCAAAGGCCTACCTCTGAGCCATGTAGCCTTGCCTCCGACAGACTATGACAGAAG
TCCCTTTGTCACATCTCCCATTAGCATGACAATGCCACCTCACAGCAGCCTGCATGGTTACCAACCCTAT
GGTCACTTTCCTAGTCGGGCCATCAAGTCTGAGTACCCAGACCCCTACTCCAGCTCACCTGAGTCAATGA
TGGGTTACTCCTACATGGATGGTTACCAGACAAACTCCCCGGCCAGCATCCCACACCTGATACTGGAACT
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CCATTGTTGAGTGGGCCAGGAGTAGTATCTTCTTCAGGGAACTGAAGGTTGATGACCAAATGAAGCTGCT
TCAAAACTGCTGGAGTGAGCTCTTGATTCTCGATCACATTTACCGACAAGTGGCGCATGGGAAGGAAGGG
ACAATCTTCCTGGTTACTGGAGAACACGTGGACTACTCCACCATCATCTCACACACAGAAGTCGCGTTCA
ACAACCTCCTGAGTCTCGCACAGGAGCTGGTGGTGAGGCTCCGTTCCCTTCAGTTCGATCAGCGGGAGTT
TGTATGTCTCAAGTTCCTGGTGCTGTTCAGCTCAGATGTGAAGAACCTGGAGAACCTGCAGCTGGTGGAA
GGTGTCCAAGAGCAGGTGAATGCCGCCCTGCTGGACTACACGGTTTGCAACTACCCACAACAGACTGAGA
AATTCGGACAGCTACTTCTTCGGCTACCCGAGATCCGGGCAATCAGCAAGCAGGCAGAAGACTACCTGTA
CTATAAGCACGTGAACGGGGATGTGCCCTATAATAACCTCCTCATTGAGATGCTGCATGCCAAAAGAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

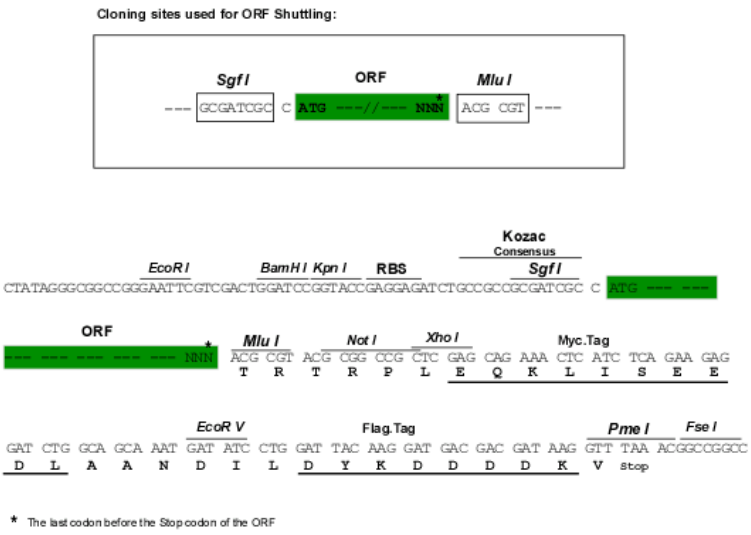
>MR225372 representing NM_001159769
Red=Cloning site Green=Tags(s)

MSASLDTGDFQEFLKHGLTAIASAPGSETRHSPKREEQLREKRAGLPDRHRRPIPARSRLVMLPKVETEA
PGLVRSHGEQGQMPENMQVSQFKMVNYSYDEDLEELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNQKR
YTCIENQNCQIDKTQRKRCPYCRFKKCIDVGMKLEAVRADRMRGGRNKFGPMYKRDRALKQQKKALIRAN
GLKLEAMSQVIQAMPSDLTSAIQNIHSASKGLPLSHVALPPTDYDRSPFVTSPISMTMPPHSSLHGYQPY
GHFPSRAIKSEYPDPYSSSPESMMGYSYMDGYQTNSPASIPHLILELLKCEPDEPQVQAKIMAYLQQEQS
NRNRQEKLSAFGLLCKMADQTLFSIVEWARSSIFFRELKVDDQMKLLQNCWSELLILDHIYRQVAHGKEG
TIFLVTGEHVDYSTIISHTEVAFNNLLSLAQELVVRLRSLQFDQREFVCLKFLVLFSSDVKNLENLQLVE
GVQEQVNAALLDYTVCNYPQQTEKFGQLLLRLPEIRAISKQAEDYLYYKHVNGDVPYNNLLIEMLHAKRA

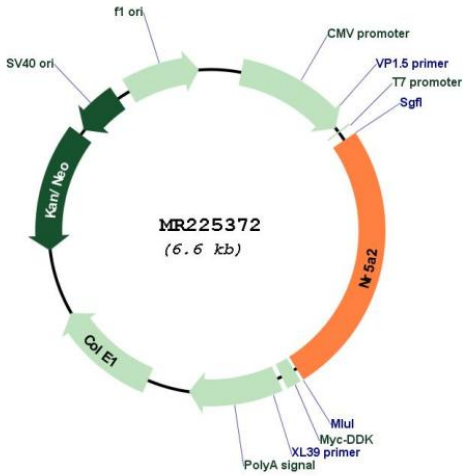
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001159769
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 Size:	3635 bp
RefSeq ORF:	1500 bp
Locus ID:	26424
Cytogenetics:	1 E4
MW:	57.6 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]