

## Product datasheet for **MG225371**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nr5a2 (NM_030676) 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:**

>MG225371 representing NM\_030676  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTGCTAGTTTGGACTACTGGAGATTTCAAGAATTTCTTAAGCATGGACTTACAGCTATTGCGTCTG  
 CACCAGGGTCAGAGACTCGCCACTCCCCAAACGTGAGGAACAACCTCCGGGAAAAACGTGCTGGGCTTCC  
 GGACCGACACCGACGCCCATTCGCCCGCCGACCGCCTTGTCTGCTGCCCAAAGTGGAGACGGAAGCC  
 CCAGGACTGGTCCGATCGCATGGGAACAGGGGCAGATGCCAGAAAAATGCAAGTGTCTCAATTTAAAA  
 TGGTGAATTACTCCTATGATGAAGATCTGGAAGAGCTATGTCCTGTGTGGCGATAAAGTGTCTGGGTA  
 CCATTACGGTCTCCTCACGTGCGAAAGCTGCAAGGGTTTTTTAAGCGAACTGTCCAAAACAAAAAAGG  
 TACACGTGCATAGAGAACCAGAATTGCCAAATTGACAAAACGAGAGAAAACGATGTCCCTACTGTCGAT  
 TCAAAAAATGTATCGATGTTGGGATGAAGCTGGAAGCCGTAAGAGCCGACCGCATGCGAGGGGGCAGAAA  
 TAAGTTTGGGCCAATGTACAAGAGAGACAGGGCTTTGAAGCAGCAGAAGAAAGCCCTCATTGAGCCAAT  
 GGACTTAAGCTGGAAGCCATGTCTCAGGTGATCCAAGCAATGCCCTCAGACCTGACCTCTGCAATTCAGA  
 ACATTCATTCCGCCTCCAAAGGCCACCTCTGAGCCATGTAGCCTTGCCCTCCGACAGACTATGACAGAAG  
 TCCCTTTGTACATCTCCATTAGCATGACAATGCCACCTCACAGCAGCCTGCATGGTTACCAACCCAT  
 GGTCACTTTCTAGTCGGCCATCAAGTCTGAGTACCCAGACCCCTACTCCAGCTCACCTGAGTCAATGA  
 TGGGTTACTCCTACATGGATGGTTACCAGACAACTCCCCGGCCAGCATCCCACACCTGATACTGGAAGT  
 TTTGAAGTGTGAACCAGATGAGCCTCAAGTTCAGCGAAGATCATGGCTTACCTCCAGCAAGAGCAGAGT  
 AACCGAAACAGCAAGAAAAGCTGAGCGCATTTGGGCTTTTATGCAAAAATGGCGGACCAGACCCTGTTCT  
 CATTGTTGAGTGGGCCAGGAGTAGTATCTTCTCAGGGAAGTGAAGTTGATGACCAAAATGAAGTGTCT  
 TCAAAACTGCTGGAGTGAGCTCTTGATTCTCGATCACATTTACCGACAAGTGGCGCATGGGAAGGAAGGG  
 ACAATCTTCTGTTACTGGAGAACACGTGGACTACTCCACCATCATCTCACACACAGAAGTCGCGTTCA  
 ACAACCTCCTGAGTCTCGCACAGGAGCTGGTGGTGAAGCTCCGTTCCCTCAGTTCGATCAGCGGGAGTT  
 TGTATGTCTCAAGTTCCTGGTGTGTTGAGTGTGAGGCTCCGTTCCCTCAGTTCGATCAGCGGGAGTT  
 GGTGTCCAAGAGCAGGTGAATGCCGCCCTGCTGGACTACACGTTTGAAGTACCCACAACAGACTGAGA  
 AATTCCGACAGCTACTTCTCGGCTACCCGAGATCCGGGCAATCAGCAAGCAGGCAGAAGACTACCTGTA  
 CTATAAGCACGTGAACGGGGATGTGCCATAATAACCTCCTCATTGAGATGCTGCATGCCAAAAGACCC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG225371 representing NM\_030676  
 Red=Cloning site Green=Tags(s)

MSASLDTGDFQEFKHLTAIASAPGSETRHSPKREEQLREKRAGLPDRHRRPIPARSRLVMLPKVETEA  
 PGLVRSHGEGQMPENMQVSQFKMVNYSYDEDLEELCPVCGDKVSGYHYGLLTCECKGFFKRTVQNKR  
 YTCIENQNCQIDKTQRKRCPCYRFKCIDVGMKLEAVRADMRGGRNKFPGMYKRDRAKQKQKALIRAN  
 GLKLEAMSQVIQAMPDLTSAIQNIHSASKGLPLSHVALPPTDYDRSPFVTSPISMTMPHSSLHGYPY  
 GHFPSRAIKSEYDPYSSSPESMMGYSYMDGYQTNSPASIPHLILELLKCEPDEPQVQAKIMAYLQQEQS  
 NRRNRQEKLSAFGLLCKMADQTLFSIVEWARSSIFFRELKVDDQMKLLQNCWSELLILDHIYRQVAHGKEG  
 TIFLVTGEHVDYSTIISHTEVAFNNLLSLAQELVVRLRSLQFDQREFVCLKFLVLFSSDVKNLENLQVE  
 GVQEQVNAALLDYTVCNYPQQTEKFGQLLLRLPEIRAISKQAEDYLYYKHVNGDVPYNNLLIEMLHAKRA

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

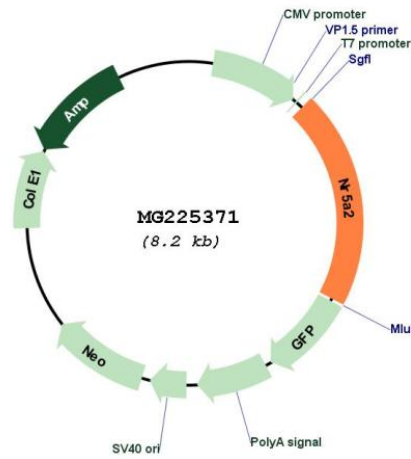
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_030676
<b>ORF Size:</b>	1680 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030676.3</a> , <a href="#">NP_109601.1</a>
<b>RefSeq Size:</b>	3720 bp
<b>RefSeq ORF:</b>	1683 bp
<b>Locus ID:</b>	26424
<b>UniProt ID:</b>	<a href="#">P45448</a>
<b>Cytogenetics:</b>	1 E4
<b>Gene Summary:</b>	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]