

Product datasheet for **MG227522**

Nr1h3 (NM_013839) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1h3 (NM_013839) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nr1h3
Synonyms:	AU018371; LXR; RLD1; Unr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227522 representing NM_013839
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTGTGGCTGGAGCCTCAATGCCTGATGTTTCTCCTGATTCTGCAACGGAGTTGTGAAGACAG
 AACCTCAAGATGCAGGAGACCAGGGAGGCAACACTTGCATCCTCAGGGAGGAAGCCAGGATGCCCCAGTC
 AACTGGGGTTGCTTTAGGGATAGGGTTGGAGTCAGCAGAGCCTACAGCCCTGCTCCCCAGGGCAGAGACC
 CTCCAGAGCCGACAGAGCTTCGTCCACAAAAGCGGAAAAAGGGCCAGCCCCAAAATGCTGGGGAACG
 AGCTGTGCAGTGTCTGTGGGGACAAAGCCTCTGGCTTCCATTACAACGTGCTGAGCTGCGAGGGGTGCAA
 GGGATTCTCCGCCGAGTGTCAATCAAGGGAGCACGCTATGTCTGCCACAGCGGTGGCCACTGCCCCATG
 GACACCTACATGCGGGGAAATGCCAGGAGTGTGACTTCGAAATGCCGCCAGGCAGGCATGAGGGAGG
 AGTGTGTGCTGTCAGAAGAACAGATCCGCTTGAAGAACTGAAGCGGCAAGAAGAGGAACAGGCTCAAGC
 CACTTCGGTGTCCCAAGGGTGTCTCACCTCCTCAAGTCTGCCACAGCTCAGCCAGAGCAGCTGGGC
 ATGATCGAGAAGCTGGTGGCTGCCAGCAACAGTGAACAGGCGCTCCTTCTCAGACCGCTGCGGGTCA
 CGCCTTGCCCATTCACCCGACCCTCAGAGCCGGGAAGCCGACAACAGCGCTTTGCCACTTTACTGA
 GCTGGCCATCGTGTCCGTGCAGGAGATTGTTGACTTTGCCAAACAGCTCCCTGGCTTCTACAGCTCAGC
 AGGGAGGACCAGATCGCCTTGTGAAGACCTCTGCAATCGAGGTCATGCTTCTGGAGACGTCACGGAGGT
 ACAACCCCGGCAGTGAGAGCATCACCTTCTCAAGGACTTCAGTTACAACCGGGAAGACTTTGCCAAAGC
 AGGGCTGCAGGTGGAGTTCATCAACCCATCTTTGAGTTCTCCAGAGCCATGAATGAGCTGCAACTCAAT
 GATGCTGAGTTTGTCTGCTCATTGCCATCAGCATCTTCTGTCAGACCGGCCAACGTGCAGGACCAGC
 TCCAAGTAGAGAGGCTGCAACACACATATGTGGAGGCCCTGCACGCCTACGTCTCCATCAACACCCCA
 CGACCCACTGATGTTCCACGGATGCTAATGAAGCTGGTGGAGCCTCCGTACTTTGAGCAGCGTCCATTCA
 GAGCAAGTGTGGCCCTGCGCTGCAGGACAAAAGCTTCCCCTCTGCTGTCTGAGATCTGGGATGTCC
 ACGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227522 representing NM_013839
 Red=Cloning site Green=Tags(s)

MSLWLEASMPDVSPDSATELWKTEPQDAGDQGGNTCILREEARMPQSTGVALGIGLESAEPTALLPRAET
 LPEPELTPQKRKKGPAKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGARYVCHSGGHCPM
 DTYMRRKQCECLRKCRQAGMREECVLSEEQIRLKKLRQEEEAQATSVSPRVSSPPQVLPQLSPEQLG
 MIEKLVAAQQQCNRRSFSDRLRVTPWPIAPDPQSREARQQRFAHFTELAIVSVQEIIVDFAKQLPGFLQLS
 REDQIALLLKTS AIEVMMLLETSSRYNPGSEITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQLN
 DAEFALLIAISIFSADRPNVQDQLQVERLQHTYVEALHAYVSIINHPHDPLMFPRMLMKLVSLRTLSSVHS
 EQVFALRLQDKKLPLLSEIWDVHE

TRTRPLE - GFP Tag - V

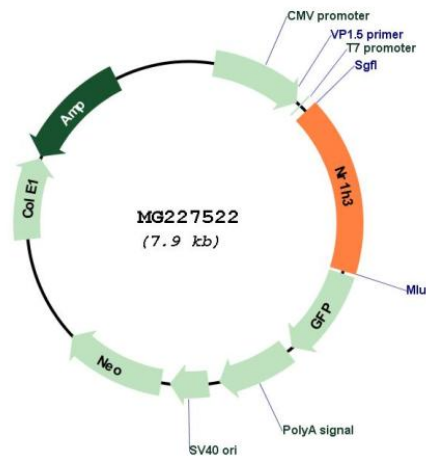
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_013839

ORF Size: 1335 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:	<ol style="list-style-type: none">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:	<u>NM_013839.4</u> , <u>NP_038867.2</u>
RefSeq Size:	1955 bp
RefSeq ORF:	1338 bp
Locus ID:	22259
UniProt ID:	<u>Q9Z0Y9</u>
Cytogenetics:	2 50.52 cM
Gene Summary:	Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity (PubMed:18055760, PubMed:19520913, PubMed:20427281). Interaction with retinoic acid receptor (RXR) shifts RXR from its role as a silent DNA-binding partner to an active ligand-binding subunit in mediating retinoid responses through target genes defined by LXRES. LXRES are DR4-type response elements characterized by direct repeats of two similar hexanuclotide half-sites spaced by four nucleotides. Plays an important role in the regulation of cholesterol homeostasis, regulating cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8. Interplays functionally with RORA for the regulation of genes involved in liver metabolism.[UniProtKB/Swiss-Prot Function]