

Product datasheet for **MR227526**

Nr1h3 (NM_001177730) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1h3 (NM_001177730) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr1h3
Synonyms:	AU018371; LXR; RLD1; Unr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227526 representing NM_001177730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTTGTGGCTGGAGCCTCAATGCCTGATGTTTCTCCTGATTCTGCAACGGAGTTGTGGAAGACAG
 AACCTCAAGATGCAGGAGACCAGGGAGGCAACACTTGCATCCTCAGGGAGGAAGCCAGGATGCCCCAGTC
 AACTGGGGTTGCTTTAGGGATAGGGTTGGAGTCAGCAGAGCCTACAGCCCTGCTCCCCAGGGCAGAGACC
 CTCCCAGAGCCGACAGAGCTTCCGCCACAAAAGCGGAAAAAGGGCCAGCCCCAAAATGCTGGGGAACG
 AGCTGTGCAGTGTCTGTGGGGACAAAGCCTCTGGCTTCCATTACAACGTGCTGAGCTGCGAGGGTGCAA
 GGGATTCTCCGCCGAGTGTCAATCAAGGGAGCACGCTATGTCTGCCACAGCGTGGCCACTGCCCATG
 GACACCTACATGCGGCGGAAATGCCAGGAGTGTGACTTCGAAATGCCGCCAGGCAGGCATGAGGGAGG
 AGTGTGTGCTGTGAGAAGACAGATCCGCTTGAAGAACTGAAGCGGCAAGAAGAGGAACAGGCTCAAGC
 CACTTCGGTGTCCCAAGGGTGTCTCACCTCCTCAAGTCTGCCACAGCTCAGCCAGAGCAGCTGGGC
 ATGATCGAGAAGCTGGTGGCTGCCAGCAACAGTGAACAGGCGCTCCTTCTCAGACCGCTGCGCGTCA
 CGCCTTGCCCATTCACCCGACCCTCAGAGCCGGGAAGCCGACAACAGCGCTTTGCCACTTTACTGA
 GCTGGCCATCGTGTCCGTGCAGGAGATTGTTGACTTTGCCAAACAGCTCCCTGGCTTCTACAGCTCAGC
 AGGGAGGACCAGATCGCCTTGTGAAGACCTCTGCAATCGAGGTCATGCTTCTGGAGACGTCACGGAGGT
 ACAACCCCGCAGTGAGAGCATCACCTTCTCAAGGACTTCAGTTACAACCGGGAAGACTTTGCCAAAGC
 AGGGCTGCAGGTGGAGTTCATCAACCCATCTTTGAGTTCTCCAGAGCCATGAATGAGCTGCAACTCAAT
 GATGCTGAGTTTGTCTGCTCATTGCCATCAGCATCTTCTGTCAGACCGGCCAACGTGCAGGACCAGC
 TCCAAGTAGAGAGGCTGCAACACACATATGTGGAGGCCCTGCACGCCCTACGTCTCCATCAACACCCCA
 CGACCCACTGATTTCCACGGATGCTAATGAAGCTGGTGGAGCCTCCGTACTTTGAGCAGCGTCCATTCA
 GAGCAAGTGTGGCCCTTCGCTGCAGGACAAAAGCTTCCCCCTGCTGTCTGAGATCTGGGATGTCC
 ACGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227526 representing NM_001177730
 Red=Cloning site Green=Tags(s)

MSLWLEASMPDVSPDSATELWKTEPQDAGDQGGNTCILREEARMPQSTGVALGIGLESAEPTALLPRAET
 LPEPTELRPQKRKKGPAKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGARYVCHSGGHCPM
 DTYMRRKQCECLRKCRQAGMREECVLSEEQIRLKKLRQEEEAQATSVSPRVSSPPQVLPQLSPEQLG
 MIEKLVAAQQCNRRSFSDRLRVTPWPIAPDPQSRREARQRF AHFT ELAIVSVQEI VDFAKQLPGFLQLS
 REDQIALKTS AIEVM LLET SRRYNP GSEITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQLN
 DAEFALLIAISIFSADRPNVQDQLQVERLQHTYVEALHAYVSIINHPHDPLMFPRMLMKLVSLRTLSSVHS
 EQVFALRLQDKKL PPLLSEIWDVHE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001177730

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:

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_001177730.1](#), [NP_001171201.1](#)

RefSeq Size: 1802 bp

RefSeq ORF: 1338 bp

Locus ID: 22259

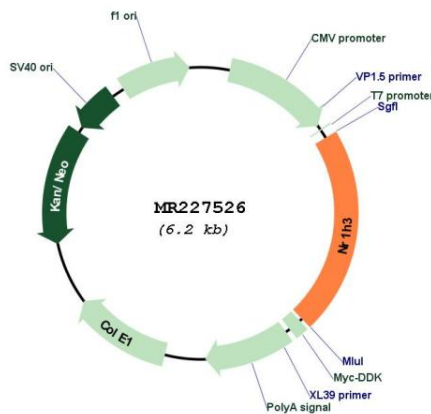
UniProt ID: [Q9Z0Y9](#)

Cytogenetics: 2 50.52 cM

MW: 50.4 kDa

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]

Product images:



Circular map for MR227526