

Product datasheet for MR229939

Nr1h2 (NM_001285518) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1h2 (NM_001285518) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr1h2
Synonyms:	A1194859; LXR; LXRβ; LXRβSV; LXRβSV; NER1; OR-1; RIP15; Unr; Unr2; UR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229939 representing NM_001285518 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCCCCACAAGTTCTCTGGACTCTCCCGTGCCTGGGAATGGTTCTCTCAGCCAGTACCTCCG
CCAGTCACTACTTAAGGAAGAGGGGAGGAGACTGATCCTCCTCCAGGCTCTGAAGGTCAGCTC
TGCTACATCGTGGAGCCAGAGGATGAGCCTGAGCGCAAGCGGAAGAAGGGCCGCCCGAAGATGCTG
GGCCATGAGCTGTGCCGGTGTGCGGAGACAAGCCTCGGGCTTCCACTACAACGTGCTCAGCTGTGAAG
GCTGCAAAGGCTTCTCCGGCGCAGTGTGGTCCACGGTGGGGCCGGGCGCTATGCCTGTCCGGGCGAGCGG
AACCTGCCAGATGGATGCCTTATGCGGCGCAAGTCCAGCTCTGCCGGTGCAGCAAGTGAAGGAGGCT
GGCATGCGGGAGCAGTGCCTGCTCTGAGGAGCAGATTCGGAAGAAAAGGATTCAGAAGCAGCAACAGC
AGCAGCCACCACCCCATCTGAGCCAGCAGCCAGCAGCTCAGGCCGGCCAGCGGCCTCCCCTGGCACTTC
GGAAGCAAGCAGCCAGGGCTCCGGGAAGGAGAGGGCATCCAGCTGACCGCGGCTCAGGAGCTGATGATC
CAGCAGTTAGTTGCCGCGCAGCTGCAGTGCAACAAACGATCTTTCTCCGACCAGCCAAAAGTCAAGCCT
GGCCCTGGGTGCAGACCCTCAGTCCCAGATGCCCGTCAAGCAGCTTTGCCACTTCCAGGAGTATGC
CATCATCTCGGTCCAGGAGATTGTGACTTTGCCAAGCAGGTGCCAGGGTTCTTGCAAGTTGGCCGGGAG
GACCAGATCGCCCTCCTGAAGGCGTCCACCATTGAGATCATGTTGCTAGAAAACAGCCAGCAGCTACAACC
ACGAGACAGAATGCATCACGTTCTGAAGGACTTACCTACAGCAAGGACGACTTCCACCGTGCAGGCTT
GCAGGTGGAATTCATCAATCCCATCTTCGAGTTCTCGCGGCCATGCGCGGCTGGGCTGGACGATGCA
GAGTATGCCTTGTTATCGCCATCAACATCTTCTCAGCCGATCGGCTAATGTGCAGGAGCCAGCCGTG
TGGAGGCCCTGCAGCAGCCCTACGTGGAGGCGCTCCTCTCTACAGGAGATCAAGCGCCACAGGACCA
GCTCCGCTTCCACGCATGCTCATGAAGCTGGTGAAGCTGCGCACCTCAGCTCCGTGCACTCGGAGCAG
GTCTTTGCATTGGACTCCAGGACAAGAAGCTGCCGCCCTTGCTGTCCGAGATCTGGGATGTGCACGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229939 representing NM_001285518
 Red=Cloning site Green=Tags(s)

MSSPTSSLDTVPVPGNGSPQPSTSATSPTIKEEGQETDPPPGESESSAYIVEPEDEPERKRKKGPAKML
 GHELCRVCGDKASGFHYNVLSCEGCKGFFRRSVVHGGAGRYACRGSQTQMDAFMRRKQCLCRLRKCKEA
 GMREQCVLSEEQIRKKRIQKQQQQPPPPSEPAASSSGRPAASPGTSEASSQSGEGEGLQTLAAQELMI
 QQLVAAQLQCNRKRSFSDQPKVTPWPLGADPQSRDARQRF AHFTELAIIISVQEI VDFAKQVPGFLLQGRE
 DQIALLKASTIEIMLLETARRYNHETECITFLKDFTYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDA
 EYALLIAINIFSA DRPNVQEPSRVEALQQPYVEALLSYTRIKRPQDQLRFRPMLMKLVSLRTLSSVHSEQ
 VFALRLQDKKLPPLLSEIWDVHE

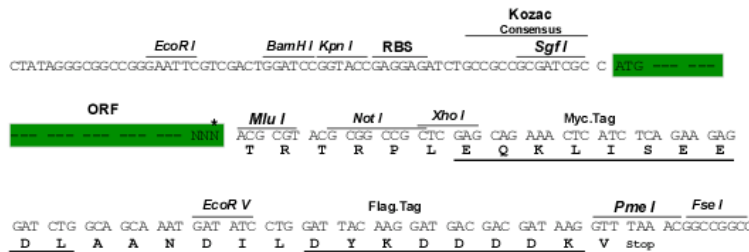
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

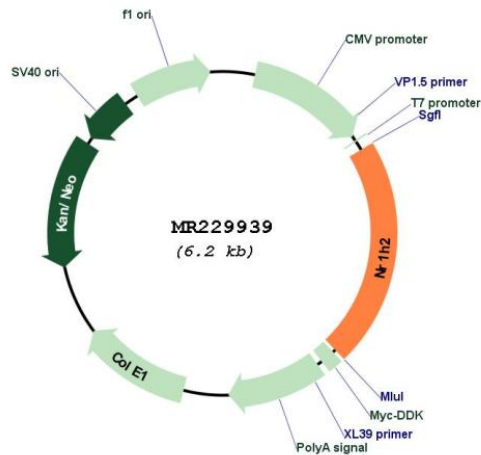
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001285518

ORF Size:	1329 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:	NM_001285518.1 , NP_001272447.1
RefSeq Size:	2016 bp
RefSeq ORF:	1332 bp
Locus ID:	22260
UniProt ID:	Q60644
Cytogenetics:	7 B3
MW:	49.8 kDa
Gene Summary:	Nuclear receptor that exhibits a ligand-dependent transcriptional activation activity (PubMed:18055760, PubMed:19520913, PubMed:20427281). Binds preferentially to double-stranded oligonucleotide direct repeats having the consensus half-site sequence 5'-AGGTCA-3' and 4-nt spacing (DR-4) (PubMed:18055760, PubMed:19520913, PubMed:20427281). Regulates cholesterol uptake through MYLIP-dependent ubiquitination of LDLR, VLDLR and LRP8; DLDLR and LRP8 (PubMed:18055760, PubMed:19520913, PubMed:20427281). Interplays functionally with RORA for the regulation of genes involved in liver metabolism (PubMed:18055760, PubMed:19520913, PubMed:20427281). 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 (By similarity).[UniProtKB/Swiss-Prot Function]