

Product datasheet for **MR207128**

Nr1h2 (NM_009473) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1h2 (NM_009473) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr1h2
Synonyms:	A1194859; LXR; LXRβ; LXRbeta; LXRBSV; NER1; OR-1; RIP15; Unr; Unr2; UR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207128 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTCCCCACAAGTTCTCTGGACACTCCCGTGCCTGGGAATGGTTCTCCTCAGCCCAGTACCTCCG
 CCACGTACCCACTATTAAGGAAGAGGGGCAGGAGACTGATCCTCCTCCAGGCTCTGAAGGGTCCAGCTC
 TGCTACATCGTGGTCATCTTAGAGCCAGAGGATGAGCCTGAGCGCAAGCGGAAGAAGGGCCGGCCCCG
 AAGATGCTGGGCCATGAGCTGTGCCGCTGTGCGGAGACAAGGCTTCGGGCTTCCACTACAACGTGCTCA
 GCTGTGAAGGCTGCAAAGGCTTCTCCGGCGCAGTGTGGTCCACGGTGGGGCCGGGCGCTATGCCTGTCG
 GGGCAGCGGAACCTGCCAGATGGATGCCTTCATGCGGCGCAAGTCCAGCTCTGCCGGCTGCGCAAGTGC
 AAGGAGGTGGCATGCGGGAGCAGTGCCTGCTCTGAGGAGCAGATTCGGAAGAAAAGGATTGAGAAGC
 AGCAACAGCAGCAGCCACCACCCCATCTGAGCCAGCAGCCAGCAGCTCAGGCCGGCCAGCGGCCTCCCC
 TGGCACTTCGGAAGCAAGCAGCCAGGGTCCGGGAAGGAGAGGGCATCCAGCTGACCGCGCTCAGGAG
 CTGATGATCCAGCAGTTAGTTGCCGCGCAGCTGCAAGTCAACAAACGATCTTTCTCCGACCAGCCAAAG
 TCACGCCCTGGCCCTGGGTGCAGACCCTCAGTCCCGAGATGCCCGTCAGCAACGCTTTGCCCACTTCAC
 CGAGTAGCCATCATCTCGGTCCAGGAGATTGTGGACTTTGCCAAGCAGGTGCCAGGGTTCTTGCAAGTTC
 GGCCGGGAGGACCAGATCGCCCTCCTGAAGGCGTCCACCATTGAGATCATGTTGCTAGAAACAGCCAGAC
 GCTACAACCACGAGACAGAATGCATCACGTTCTGAAGGACTTCACTACAGCAAGGACGACTTCCACCG
 TGCAGGCTTGCAGGTGGAATTCATCAATCCCATCTTCGAGTTCTCGCGGGCCATGCGGCGCTGGGCCTG
 CACGATGCAGAGTATGCCTTGCCTATCGCCATCAACATCTTCTCAGCCGATCGGCCTAATGTGCAGGAGC
 CCAGCCGTGTGGAGCCCTGCAGCAGCCCTACGTGGAGGCGCTCCTCTCTACACGAGGATCAAGCGCCC
 ACAGGACCAGCTCCGCTTCCCACGCATGCTGAAGCTGGTGAGCCTGCGCACCCCTCAGCTCCGTGCAC
 TGGGAGCAGTCTTTCATTGCGACTCCAGGACAAGAAGCTGCCGCCCTTGTGTCCGAGATCTGGGATG
 TGCACGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207128 protein sequence
 Red=Cloning site Green=Tags(s)

MSSPTSSLDTPVPGNGSPQPSTSATSPITKEEGQETDPPPGESESSSAYIVVILEPEDEPERKRKKGPA
 KMLGHELRCRVCGDKASGFHYNVLSCEGCKGFFRRSVVHGGAGRYACRGSQMDAFMRRKQCLRLRKC
 KEAGMREQCVLSEEQIRKKRIQKQQQQPPPPSEPAASSSRPAASPGTSEASSQSGEGEGLTAAQE
 LMIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQRF AHFTLAIISVQEIVDFAKQVPGFLQL
 GREDQIALLKASTIEIMLLETARRYNHETECITFLKDF TYSKDDFHRAGLQVEFINPIFEFSRAMRRLGL
 DDAEYALLIAINIF SADRPNVQEPSRVEALQOPYVEALLSYTRIKRPQDQLRFPRLMKLVSLRTLSSVH
 SEQVFALRLQDKKLPLLLSEIWDVHE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_009473

ORF Size: 1341 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_009473.3](#), [NP_033499.1](#)

RefSeq Size: 2029 bp

RefSeq ORF: 1341 bp

Locus ID: 22260

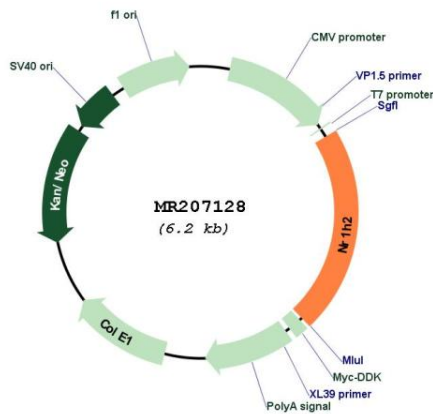
UniProt ID: [Q60644](#)

Cytogenetics: 7 B3

MW: 49.7 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]

Product images:



Circular map for MR207128