

Product datasheet for **MG207128**

Nr1h2 (BC066025) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Nr1h2 (BC066025) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Nr1h2 |
| Synonyms: | UR, LXRB, NER1, OR-1, RIP15, LXRBeta |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG207128 representing BC066025
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCCCCACAAGTCTCTGGACACTCCCGTGCCTGGGAATGGTTCTCCTCAGCCCAGTACCTCCG
 CCACGTACCCACTATTAAGGAAGAGGGGCAGGAGACTGATCCTCCTCCAGGCTCTGAAGGGTCCAGCTC
 TGCTACATCGTGGTCATCTTAGAGCCAGAGGATGAGCCTGAGCGCAAGCGGAAGAAGGGCCGGCCCCG
 AAGATGCTGGGCCATGAGCTGTGCCGCTGTGCGGAGACAAGGCTTCGGGCTTCCACTACAACGTCTCA
 GCTGTGAAGGCTGCAAAGGCTTCTCCGGCGCAGTGTGGTCCACGGTGGGGCCGGGCGCTATGCCTGTCG
 GGGCAGCGAACCTGCCAGATGGATGCCTTCATGCGGCGCAAGTCCAGCTCTGCCGGCTGCGCAAGTGC
 AAGGAGGTGGCATGCGGGAGCAGTGCCTGCTCTCTGAGGAGCAGATTCGGAAGAAAAGGATTGAGAAGC
 AGCAACAGCAGCAGCCACCACCCCATCTGAGCCAGCAGCCAGCAGCTCAGGCCGGCCAGCGGCCTCCCC
 TGGCACTTCGGAAGCAAGCAGCCAGGGTCCGGGAAGGAGAGGGCATCCAGCTGACCGCGCTCAGGAG
 CTGATGATCCAGCAGTTAGTTGCCGCGCAGCTGCAAGTGAACAAACGATCTTTCTCCGACCAGCCAAAG
 TCACGCCCTGGCCCTGGGTGCAGACCCTCAGTCCCGAGATGCCCGTCAGCAACGCTTTGCCCACTTCAC
 CGAGTAGCCATCATCTCGGTCCAGGAGATTGTGGACTTTGCCAAGCAGGTGCCAGGGTTCTTGCAAGTTC
 GGCCGGGAGGACCAGATCGCCCTCTGAAGGCGTCCACCATTGAGATCATGTTGTAGAAACAGCCAGAC
 GCTACAACCACGAGACAGAATGCATCACGTTCTGAAGGACTTCACTACAGCAAGGACGACTTCCACCG
 TGCAGGCTTGCAGGTGGAATTCATCAATCCCATCTTCGAGTCTCGCGGGCCATGCGGCGCTGGGCCTG
 CACGATGCAGAGTATGCCTTGCCTATCGCCATCAACATCTCTCAGCCGATCGGCCTAATGTGCAGGAGC
 CCAGCCGTGTGGAGGCCCTGCAGCAGCCCTACGTGGAGGCGCTCCTCTCTACACGAGGATCAAGCGCCC
 ACAGGACCAGCTCCGCTTCCACGCATGCTCATGAAGCTGGTGAAGCTGCGCACCCCTCAGCTCCGTGCAC
 TCGGAGCAGTCTTTCATTGCGACTCCAGGACAAGAAGCTGCCGCCCTTGTGTCCGAGATCTGGGATG
 TGCACGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207128 representing BC066025
 Red=Cloning site Green=Tags(s)

MSSPTSSLDTVPVPGNSPQPSTSATSPTIKEEGQETDPPPSEGSSSAYIVVILEPEDEPERKRKKGAP
 KMLGHELCRVCGDKASGFHYNVLSCEGCKGFFRRSVVHGGAGRYACRSGTCQMDAFMRRKCQLCRLKRC
 KEAGMREQCVLSEEQIRKKRIKQQQQPPPPSEPAASSSRPAASPGTSEASSQSGEGEGLTAAQE
 LMIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQRF AHFTELAIISVQEI VDFAKQVPGLQL
 GREDQIALLKASTIEIMLLETARRYNHETECITFLKDF TYSKDDFHRAGLQVEFINPIFEFSRAMRRLGL
 DDAEYALLIAINIF SADRPNVQEPSRVEALQQPYVEALLSYTRIKRPDQLRFPRLMKLVSLRTLSSVH
 SEQVFALRLQDKKLPLLLSEIWDVHE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC066025

ORF Size: 1338 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: [BC066025](#), [AAH66025](#)

RefSeq Size: 1991 bp

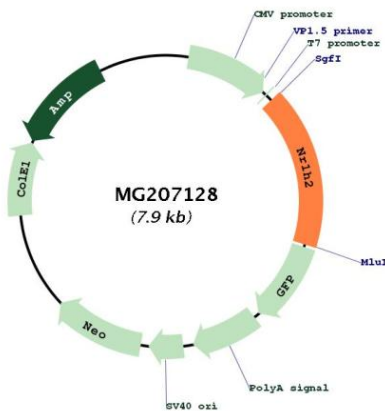
RefSeq ORF: 1340 bp

Locus ID: 22260

Cytogenetics: 7 B3

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 MG207128