Product datasheet for MR207128L4

Nr1h2 (NM_009473) Mouse Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1h2 (NM_009473) Mouse Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Nr1h2
Synonyms:	AI194859; LXR; LXRB; LXRbeta; LXRBSV; NER1; OR-1; RIP15; Unr; Unr2; UR
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR207128).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:

Sgf I   ORF   *Mlu I*

\- - - GCG ATC GCC ATG - - - // - - - NNÑ* ACG CGT - - -

Kozak Consensus

EcoR I   *BamH I*   *RBS*   *Sgf I*   ORF

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG - - - - - -

Mlu I   *Not I*   *Xho I*   mGFP Tag

- - - - - - - - - - - - - - - NNÑ ACG CGT ACG CGG CCG CTC GAG ATG AGC GGG GGC - - - - - - - - - -
　　　　　　　　　　　　　　 T　 R　 T　 R　 P　 L　 E　 M　 S　 G　 G　 - - - - -

- - - - - - GGA CTC AGA GTT TGG GTA GGA AGC
- - 　G　 L　 R　 V

* The last codon before the Stop codon of the ORF.

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ACCN:	NM_009473
ORF Size:	1341 bp

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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_009473.2, NP_033499.1
RefSeq Size:	2029 bp
RefSeq ORF:	1341 bp
Locus ID:	22260
UniProt ID:	Q60644
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:
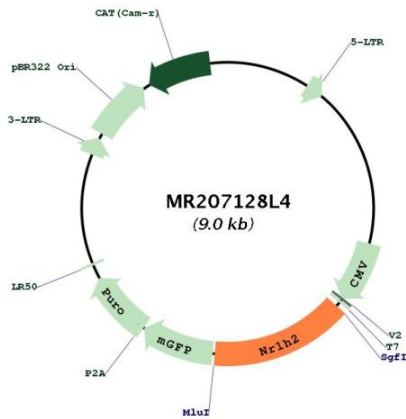
Circular map for MR207128L4
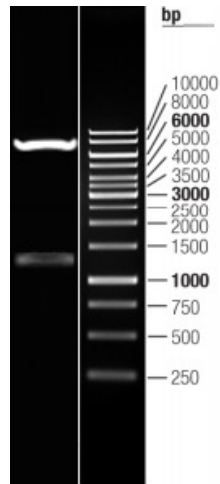
Double digestion of MR207128L4 using SgfI and MluI