

Product datasheet for MR225816

Hcar1 (NM_175520) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hcar1 (NM_175520) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hcar1
Synonyms:	Gpr81
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225816 representing NM_175520 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTCTCTCCAAGTCTATGGACAACGGGTCGTGCTGTCTCATCGAGGGGAGCCCATCTCCC
AAGTGATGCCTCCTACTCATCCTGGTCTTCGTGCTTGGCGCCCTGGGCAACGGCATAGCCCTGTGCGG
CTTCTGCTTTCACATGAAGACCTGGAAGTCAAGCACTATTTACCTTTTCAACTGGCTGTGGCCGATTTT
CTCCTCATGATCTGCTTACCCCTTCGGACAGACTACTACCTCAGACGCAGACACTGGATTTTTGGAGATA
TCGCTGTGCGCTGGTCTCTTCAAGCTGGCCATGAATAGGGCCGGGAGCATTGTCTTCTCACTGTGGT
GGCTGTGGATAGGTATTTCAAAGTGGTCCACCCACCATATGGTGAATGCCATCTCCAACCGGACTGCC
GCCGCCACCGCTGTGCTCTGGACTTTGGTCACTTGGGGACTGTGTATCTTCTGATGGAGAGTCACC
TGTGTGTGCAGGGGACACTGTGCTCCTGTGAGAGCTTCATCATGGAGTCAGCCAACGGGTGGCAGCATGT
CATGTTCCAGCTGGAGTTCTTCTGCCCTGACAATCATCTTGTCTGCTCGGTCAACGTTGTTGGAGC
CTGAGACGGAGGCAGCAGCTGACCAGACAGGCTCGGATGAGGAGGGCCACCCGGTTCATCATGGTGGTGG
CTTCTGTGTTTCATCAGTGTACCTGCCAGCGTGTGGCTAGGCTCTACTTCTCTGGACGGTGGCCAC
TAGTGCCTGTGACCCCTGTCCACACAGCCCTCCACGTACCCCTGAGCTTACCTACCTGAACAGTATG
CTGGATCCCCTTGATATTACTTCTCAAGCCCTCGCTCCCAATTCTACCAAGCTCACAATCTGCA
GCCTGAAGCCCAAACGCCAGGACGCACGAAGACGCGGAGGTGAGAAGAGATGCCAATTTGGAACCTCTG
CAGTAAGAGCTCCATCGATGGGGCAAATCGTTCCAGAGGCCATCTGACGGGCAGTGGGATCTCCAAGTG
TGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR225816 representing NM_175520
 Red=Cloning site Green=Tags(s)

MPVLSPAMDNGSCCLIEGEPISQVMPPLLILVFLGALGNGIALCGFCFHMKTWKSSTIYLFNLAVADF
 LLMICLPLRTDYLRHRRHIFGDIACRLVLFKLANNRAGSIVFLTVVAVDRYFKVVPHHVMNAISNRTA
 AATACVLWTLVILGTVYLLMESHLCVQGLSSCESFIMESANGWHDVMFQLEFFLPLTIILFCSVNVVWS
 LRRRQQLTRQARMRRATRFIMVVASVFITCYLPSVLARLYFLWTVPTSACDPSVHTALHVTLSFTYLN
 SMLDPLVYYFSSPSLPKFYTKLTICSLKPKRPGRTKTRRSEEMPISNLCSKSSIDGANRSQRP
 SDGQWDLQVC

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175520

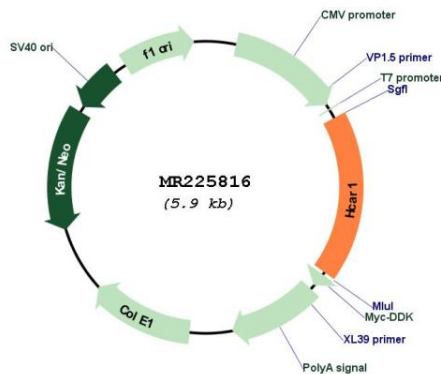
ORF Size: 1053 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_175520.4](#), [NP_780729.2](#)
- RefSeq Size:** 3285 bp
- RefSeq ORF:** 1056 bp
- Locus ID:** 243270
- UniProt ID:** [Q8C131](#)
- Cytogenetics:** 5 F
- MW:** 40.2 kDa
- Gene Summary:** Acts as a receptor for L-lactate and mediates its anti-lipolytic effect through a G(i)-protein-mediated pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225816