

## Product datasheet for MR222347

### Hcrtr1 (NM\_198959) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hcrtr1 (NM_198959) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hcrtr1
Synonyms:	ox-1-R; ox1-R; Ox1r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222347 representing NM_198959 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCCTCGGCCACTCCTGGGGCCAGCCTGGAGTCCCCACTAGTAGTGGGGAACCCTTCCATCTGC  
CTCCAGACTATGAGGACGAGTTCCTCCGATACCTGTGGCGGATTATCTCTACCCGAAGCAGTACGAGTG  
GGTTCTCATTGCAGCCTACGTGGCTGTGTTCTCATAGCCTTGGTGGCAATACCCTGGTCTGCCTGGCT  
GTGTGGCGGAACCACCACATGAGGACAGTCACCAACTACTTCATTGTCAACCTGTCCCTGGCAGATGTGC  
TGGTGACTGCCATCTGCCTGCCAGCCTGTTAGTGGACATCACCGAGTCGTGGCTCTTCGGCCAGGC  
TTTGTGCAAGGTATTCCCTATCTCCAGGCTGTGTCGGTGTCAAGTGGCAGTGTGACTCTCAGCTTCATC  
GCCCTGGACCGCTGGTATGCCATCTGCCACCCACTGTTGTTCAAGAGCACAGCTCGCCGTGCCCGTGGCT  
CCATCCTGGGCATCTGGGCTGTGTCTGGCTGTGTCATGGTCCCCAGGCTGCTGTGATGGAGTGCAGCAG  
CGTGCTGCCTGAGCTAGCCAATCGCACCCGGCTCTTCTGTCTGTGATGAGCACTGGGCAGATGAACCTC  
TACCCCAAGATCTATCACAGCTGCTTTTTCATTGTACCTACCTGGCCCCACTGGGCCTCATGGCTATGG  
CCTATTTCCAGATCTTCCGAAGCTCTGGGGCCGCGAGATCCCTGGTACCATCAGCCTTGGTGGCGAA  
CTGGAAACGGCCCTCGGAACAACCTGGAGGCTCAGCACCAGGGCCTCTGTACAGAGCCCCAGCCCCGGCC  
CGAGCCTTCTGGCTGAGGTGAAGCAGATGCGAGCTCGGAGGAAGACGGCTAAGATGCTGATGGTAGTCTC  
TGCTGGTTTTTGCACTCTGTTATCTGCCATCAGTGTCCCAATGTCTTAAGAGAGTGTTCGGGATGTT  
CCGCCAAGCCAGCGACCGGAAGCCGTCTACGCCTGCTTACCTTCTCCCACTGGCTAGTGTACGCCAAC  
AGTGCCGCCAACCTATCATCTACAACCTCCTCAGTGGCAAATCCGGGAGCAGTTCAAGGCTGCCTTCT  
CCTGCTGCCTGCCTGGTCTGGGTCCCGCTCCTCTGCCAGACACAAGTCTTGTCTTGCAGAGCCGCTG  
CTCCGCTCCAAGGTCTCTGAGCATGTCGTGCTGACCACCGTCACTACCGTGTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222347 representing NM\_198959  
Red=Cloning site Green=Tags(s)

MEPSATPGAQPGVPTSSGEPFHLPPDYEDFLRYLWRDYLYPEQYEWVLAAYVAVFLIALVGNLTVCLA  
 VWRNHHMRTVTNYFIVNLSLADLVTAICLPASLLVDITESWLFQALCKVIPYLQAVSVAVLTL SFI  
 ALDRWYAI CHPLLFKSTARRARGSILGIWAVSLAVMVPQAAMVMECSSLPELANRTRLFVSCDEHWDEL  
 YPKIYHSCFFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTTTSALVRNWKRPSEQLEAQHQGLCTEPQPR  
 RAFLAEVKQMRARRKTAKMLMVLLVFAALCYLPISVLNLKRVFGMFRQASDREAVYACFTFSHWLVYAN  
 SAANPIIYNFLSGKRFREQFAAFSCCLPGLGPGSSARHKSLSLQSRCSVSKVSEHVVLTTVTTLVLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9029\\_g10.zip](https://cdn.origene.com/chromatograms/mm9029_g10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_198959

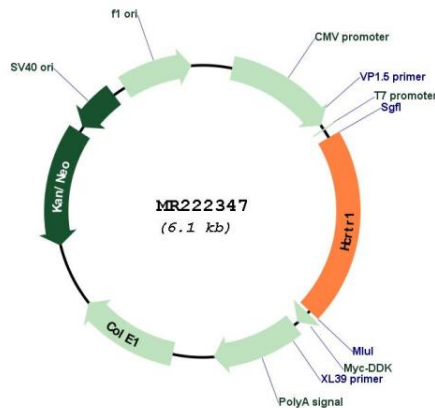
**ORF Size:** 1248 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_198959.2, NP_945197.2</u>
<b>RefSeq Size:</b>	2202 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	230777
<b>UniProt ID:</b>	<u>P58307</u>
<b>Cytogenetics:</b>	4 D2.2
<b>MW:</b>	47.2 kDa
<b>Gene Summary:</b>	Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide. Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222347