

Product datasheet for **MG222347**

Hcrtr1 (NM_198959) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hcrtr1 (NM_198959) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hcrtr1
Synonyms:	ox-1-R; ox1-R; Ox1r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222347 representing NM_198959 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCCTCGGCCACTCCTGGGGCCAGCCTGGAGTCCCCACTAGTAGTGGGGAACCCTTCCATCTGC
CTCCAGACTATGAGGACGAGTTCCTCCGATACCTGTGGCGGATTATCTTACCCGAAGCAGTACGAGTG
GGTTCTCATTGCAGCCTACGTGGCTGTGTTCTCATAGCCTTGGTGGCAATACCCTGGTCTGCCTGGCT
GTGTGGCGGAACCACCACATGAGGACAGTCACCAACTACTTCATTGTCAACCTGTCCCTGGCAGATGTGC
TGGTGACTGCCATCTGCCTGCCAGCCTGTTAGTGGACATCACCGAGTCGTGGCTCTTCGGCCAGGC
TTTGTGCAAGGTATTCCCTATCTCCAGGCTGTGTCGGTGTCAAGTGGCAGTGTGACTCTCAGCTTCATC
GCCCTGGACCGCTGGTATGCCATCTGCCACCCACTGTTGTTCAAGAGCACAGCTCGCCGTGCCCGTGGCT
CCATCCTGGGCATCTGGGCTGTGTGCTGGCTGTGTCATGGTCCCCAGGCTGCTGTGATGGAGTGCAGCAG
CGTGCTGCCTGAGCTAGCCAATCGCACCCGGCTCTTCTGTCTGTGATGAGCACTGGGCAGATGAACTC
TACCCCAAGATCTATCACAGCTGCTTTTTCATTGTACCTACCTGGCCCCACTGGCCTCATGGCTATGG
CCTATTTCCAGATCTTCCGCAAGCTCTGGGGCCGCCAGATCCCTGGTACCACATCAGCCTTGGTGGCGAA
CTGGAAACGGCCCTCGGAACAACCTGGAGGCTCAGCACCAGGGCCTCTGTACAGAGCCCCAGCCCCGGCC
CGAGCCTTCTGGCTGAGGTGAAGCAGATGCGAGCTCGGAGGAAGACGGCTAAGATGCTGATGGTAGTGC
TGCTGGTTTTTGCACTCTGTTATCTGCCATCAGTGTCCCAATGTCTTAAGAGAGTGTTCGGGATGTT
CCGCCAAGCCAGCGACCGGAAGCCGTCTACGCTGCTTACCTTCTCCCACTGGCTAGTGTACGCCAAC
AGTGCCGCCAACCTATCATCTACAACCTCCTCAGTGGCAAATCCGGGAGCAGTTCAAGGCTGCCTTCT
CCTGCTGCCTGCCTGGTCTGGGTCCCGCTCCTCTGCCAGACACAAGTCTTGTCTTGCAGAGCCGCTG
CTCCGCTCCAAGGTCTCTGAGCATGTCGTGCTGACCACCGTCACTACCGTGTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222347 representing NM_198959
Red=Cloning site Green=Tags(s)

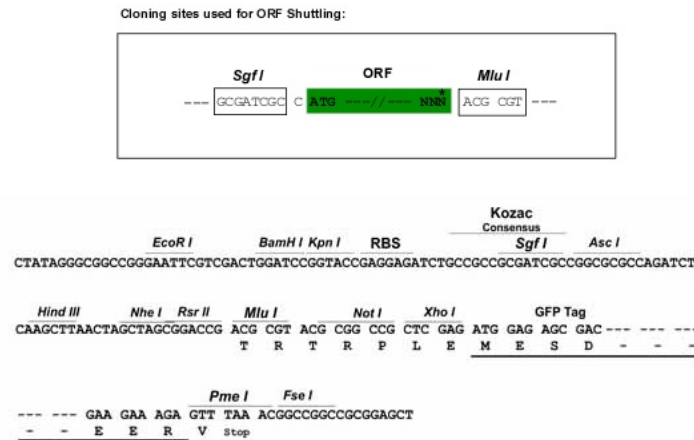
MEPSATPGAQPGVPTSSGEPFHLPPDYEDFLRYLWRDYLYPKQYEWVLI AAYVAVFLIALVGNLTVCLA
VWRNHMRTVTNYFIVNLSLADVLVTAICLPASLLVDITESWLFQALCKVIPYLQAVSVAVLTL SFI
ALDRWYAI CHPLLFKSTARRARGSILGIWAVSLAVMVPQAAMVMECSSVLP ELANRTRLF SVCDEHWADEL
YPKIYHSCFFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTTTSALVRNWKRPSEQLEAQHQGLCTEPQPR
RAFLAEVKQMRARRKTA KMLMVLLV FALCYLPISVLNVLKRVFGMFRQASDREAVYACFTF SHWLVYAN
SAANPIIYNFLSGKFR EQKAAFSCCLPGLGPGSSARHKSLSLQSRCSVSKVSEHVVLTTVTTVLS

TRTRPLE - GFP Tag - V

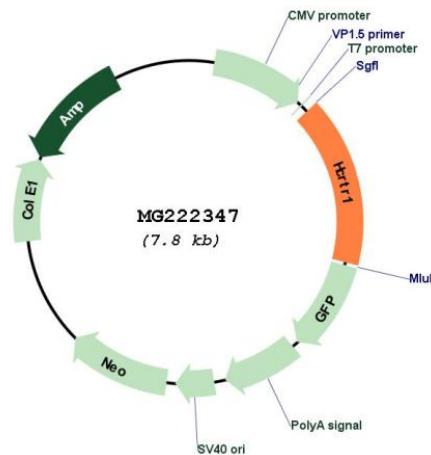
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_198959

ORF Size:	1248 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_198959.2 , NP_945197.2
RefSeq Size:	2202 bp
RefSeq ORF:	1251 bp
Locus ID:	230777
UniProt ID:	P58307
Cytogenetics:	4 D2.2
Gene Summary:	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]