

## Product datasheet for **MG222995**

### Hcrtr1 (NM\_001163027) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hcrtr1 (NM_001163027) 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:	>MG222995 representing NM_001163027 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCCTCGGCCACTCCTGGGGCCAGCCTGGAGTCCCCACTAGTAGTGGGGAACCCTTCCATCTGC  
CTCCAGACTATGAGGACGAGTTCCTCCGATACCTGTGGCGGATTATCTCTACCCGAAGCAGTACGAGTG  
GGTTCTCATTGCAGCCTACGTGGCTGTGTTCTCATAGCCTTGGTGGCAATACCCTGGTCTGCCTGGCT  
GTGTGGCGGAACCACCACATGAGGACAGTCACCAACTACTTCATTGTCAACCTGTCCCTGGCAGATGTGC  
TGGTGACTGCCATCTGCCTGCCAGCCTGTTAGTGGACATCACCGAGTCGTGGCTCTTCGGCCAGGC  
TTTGTGCAAGGTCAATCCCTATCTCCAGGCTGTGTCGGTGTCAAGTGGCAGTGTGACTCTCAGCTTCATC  
GCCCTGGACCGCTGGTATGCCATCTGCCACCCACTGTTGTTCAAGAGCACAGCTCGCCGTGCCCGTGGCT  
CCATCCTGGGCATCTGGGCTGTGTCTGGCTGTGCATGGTCCCCAGGCTGCTGTGCATGGAGTGCAGCAG  
CGTGCTGCCTGAGCTAGCCAATCGCACCCGGCTCTTCTGTCTGTGATGAGCACTGGGCAGATGAACCTC  
TACCCCAAGATCTATCACAGCTGCTTTTTCATTGTCACTACCTGGCCCCACTGGGCCTCATGGCTATGG  
CCTATTTCCAGATCTTCCGAAGCTCTGGGGCCGCGAGATCCCTGGTACCACATCAGCCTTGGTGGCGAA  
CTGGAAACGGCCCTCGGAACAACCTGGAGGCTCAGCACCAGGGCCCTGTACAGAGCCCCAGCCCCGGGCC  
CGAGCCTTCTGGCTGAGGTGAAGCAGATGCGAGCTCGGAGGAAGACGGCTAAGATGCTGATGGTAGTGC  
TGCTGGTTTTTGCACTCTGTTATCTGCCATCAGTGTCCCAATGTCTTAAGAGAGTGTTCGGGATGTT  
CCGCCAAGCCAGCGACCGGAAGCCGTCTACGCCTGCTTACCTTCTCCCACTGGCTAGTGTACGCCAAC  
AGTGCCGCCAACCTATCATCTACAACCTCCTCAGTGGCAAATCCGGGAGCAGTTCAAGGCTGCCTTCT  
CCTGCTGCCTGCCTGGTCTGGGTCCCGCTCCTCTGCCAGACACAAGTCTTGTCTTGCAGAGCCGCTG  
CTCCGCTCCAAGGTCTCTGAGCATGTCGTGCTGACCACCGTCACTACCGTGTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222995 representing NM\_001163027  
 Red=Cloning site Green=Tags(s)

MEPSATPGAQPGVPTSSGEPFHLPPDYEDFLRYLWRDYLYPKQYEWVLI AAYVAVFLIALVGNLTVCLA  
 VWRNHMRTVTNYFIVNLSLADVLVTAICLPASLLVDITESWLFQALCKVIPYLQAVSVAVLTL SFI  
 ALDRWYAICHPLLFKSTARRARGSILGIWAVSLAVMVPQAAMVMECSSVLPANRTRLF SVCDEHWADEL  
 YPKIYHSCFFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTTTSALVRNWKRPSEQLEAQHQGLCTEPQRA  
 RAFLAEVKQMRARRKTA KMLMVLLVFA LCYLPISVLNVLKRVFGMFRQASDREAVYACFTFSHWLVYAN  
 SAANPIIYNFLSGKRFREQFAAFSCCLPGLGPGSSARHKSLSLQSRCSVSKVSEHVVLTTVTTVLS

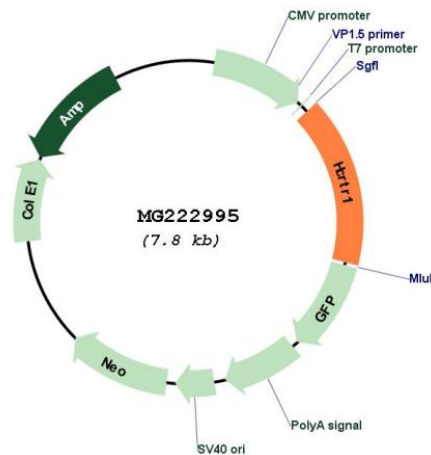
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001163027

<b>ORF Size:</b>	1248 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_001163027.1</a> , <a href="#">NP_001156499.1</a>
<b>RefSeq Size:</b>	2176 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	230777
<b>UniProt ID:</b>	<a href="#">P58307</a>
<b>Cytogenetics:</b>	4 D2.2
<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]