

Product datasheet for MR222995

Hcrtr1 (NM_001163027) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hcrtr1 (NM_001163027) 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:	>MR222995 representing NM_001163027 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCCTCGGCCACTCCTGGGGCCAGCCTGGAGTCCCCACTAGTAGTGGGGAACCCTTCCATCTGC
CTCCAGACTATGAGGACGAGTTCCTCCGATACCTGTGGCGGATTATCTTACCCGAAGCAGTACGAGTG
GGTTCTCATTGCAGCCTACGTGGCTGTGTTCTCATAGCCTTGGTGGCAATACCCTGGTCTGCCTGGCT
GTGTGGCGGAACCACCACATGAGGACAGTCACCAACTACTTCATTGTCAACCTGTCCCTGGCAGATGTGC
TGGTGACTGCCATCTGCCTGCCTGCCAGCCTGTTAGTGGACATCACCGAGTCGTGGCTCTTCGGCCAGGC
TTTGTGCAAGGTCAATCCCTATCTCCAGGCTGTGTCGGTGTCAAGTGGCAGTGTGACTCTCAGCTTCATC
GCCCTGGACCGCTGGTATGCCATCTGCCACCCACTGTTGTTCAAGAGCACAGCTCGCCGTGCCCGTGGCT
CCATCCTGGGCATCTGGGCTGTGTGCTGGCTGTGTCATGGTCCCCAGGCTGCTGTGATGGAGTGCAGCAG
CGTGCTGCCTGAGCTAGCCAATCGCACCCGGCTCTTCTGTCTGTGATGAGCACTGGGCAGATGAACCTC
TACCCCAAGATCTATCACAGCTGCTTTTTCATTGTACCTACCTGGCCCCACTGGGCCTCATGGCTATGG
CCTATTTCCAGATCTTCCGAAGCTCTGGGGCCGCGAGATCCCTGGTACCACATCAGCCTTGGTGGCGAA
CTGGAAACGGCCCTCGGAACAACCTGGAGGCTCAGCACCAGGGCCTCTGTACAGAGCCCCAGCCCCGGCC
CGAGCCTTCTGGCTGAGGTGAAGCAGATGCGAGCTCGGAGGAAGACGGCTAAGATGCTGATGGTAGTCTC
TGCTGGTTTTTGCACTCTGTTATCTGCCATCAGTGTCTCAATGTCTTAAGAGAGTGTTCGGGATGTT
CCGCCAAGCCAGCGACCGGAAGCCGTCTACGCTGCTTACCTTCTCCCACTGGCTAGTGTACGCCAAC
AGTGCCGCCAACCTATCATCTACAACCTCCTCAGTGGCAAATCCGGGAGCAGTTCAAGGCTGCCTTCT
CCTGCTGCCTGCCTGGTCTGGGTCCCGCTCCTCTGCCAGACACAAGTCTTGTCTTGCAGAGCCGCTG
CTCCGCTCCAAGGTCTCTGAGCATGTCGTGCTGACCACCGTCACTACCGTGTCTCC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222995 representing NM_001163027
 Red=Cloning site Green=Tags(s)

MEPSATPGAQPGVPTSSGEPFHLPPDYEDFLRYLWRDYLYPEKQYEWVLAAYVAVFLIALVGNLTVCLA
 VWRNHHMRTVTNYFIVNLSLADLVTAICLPASLLVDITESWLFQALCKVIPYLQAVSVAVLTLSFI
 ALDRWYAIChPLLFKSTARRARGSLGIWAVSLAVMVPQAAMVMECSSVLPANRTRLFVSCDEHWADEL
 YPKIYHSCFFIVTYLAPLGLMAMAYFQIFRKLWGRQIPGTTTSALVRNWKRPSEQLEAQHQGLCTEPQPR
 RAFLAEVKQMRARRKTAKMLMVLLVFAICYLPISVNLNVLKRVFGMFRQASDREAVYACFTFSHWLVYAN
 SAANPIIYNFLSGKFREQFAAFSCCLPGLGPGSSARHKSLSLQSRCSVSKVSEHVVLTTVTTVLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001163027

ORF Size: 1248 bp

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_001163027.1](#), [NP_001156499.1](#)

RefSeq Size: 2176 bp

RefSeq ORF: 1251 bp

Locus ID: 230777

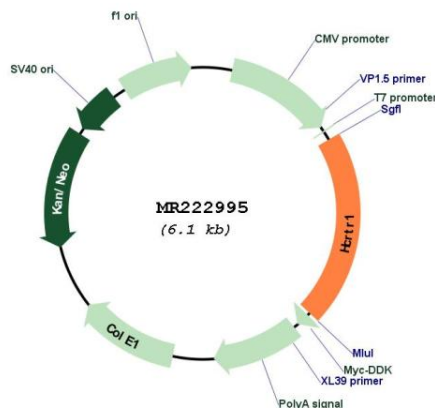
UniProt ID: [P58307](#)

Cytogenetics: 4 D2.2

MW: 46.8 kDa

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]

Product images:



Circular map for MR222995