

Product datasheet for **RR206731**

Hcrtr2 (NM_013074) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hcrtr2 (NM_013074) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hcrtr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206731 representing NM_013074 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGCACCAAATTGGAGGATTCCTCCCTCGTCGCAACTGGTCATCTGCTTCGGAGCTGAATGAAA
CTCAAGAGCCGTTTTAAACCCACAGACTATGACGACGAGGAATTCCTGCGGTACCTGTGGAGGGAATA
CCTACACCCGAAAGAATAGAGTGGTCTGATCGCAGGGTATATCATCGTGTTCGTCGTGGCTCTCATG
GGGAACGTCCTGGTCTGCGTGCCAGTGTGGAAGAACCACCACATGAGGACAGTCACCAACTACTTCATAG
TCAACCTCCTCCCTGGCTGATGTGCTTGTGACCATCACCTGCCTCCAGCCACCCTTGTGTTGACATCAC
CGAGACTTGGTCTTTGGACAGTCCCTCTGTAAGGTATCCCTTATTTACAGACTGTGTCAGTGTCTGTG
TCTGTTCTTACATTGAGCTGCATTGCCCTGGACCGATGGTACGCCATTTGTACCCTTTGATGTTCAAGA
GCACAGCCAAACGGGCTCGAAACAGCATCGTTGTCATCTGGATCGTCTCCTGCATCATAATGATTCTCA
AGCCATTGTCATGGAGCGCAGCAGCATGCTCCCTGGCCTAGCCAATAAGACCACCCTCTTACAGTCTGC
GATGAACGCTGGGAGGTGAAGTTTACCCAAAGATGTACCACATCTGCTTCTTTCTGGTGACGTACATGG
CACCCCTGTGCTTATGGTATTGGCTTATCTCCAATATTCCTGAAACTCTGGTGCAGACAGATTCCCGG
AACTTCTTCTGTGGTTCAGAGAAAATGGAAGCAGCCGCAGCCGGTTTCTCAGCCCGGGGTCCGGACAG
CAGAGCAAGGCCCGATTAGCGCTGTGCTGCTGAGATAAAGCAGATCCGAGCACGAAGGAAAACAGCCC
GGATGCTCATGGTTGACTTCTGGTCTTTGCAATTTGCTATCTACCAATCAGCATCTCAATGTGCTAAA
GAGAGTGTTCGGGATGTTACACACACCGAAGACAGAGACTGTCTACGCTGGTTCACATTTTCTCAT
TGGCTTGTGATGCCAATAGTGTGCAACCCAATTTATAATTTTCTCAGTGGAAAATTTTCGAGAGG
AATTTAAAGTGCCTTTTCTTGTGTCTTGGGTTTCATCGTCGTCAGGAGATCGCTCGCCAGGGGACG
CACAAGTACAGAGAGCAGGAAGTCCCTGACTACTCAGATCAGCAACTTTGATAATGTATCAAACTCTCA
GAGCACGTGGCGCTCACCAGCATAAGCACACTCCAGCAGCCAACGGGGCAGGACCGCTTCAAACTGGT
ATCTACAACAGGGAGTGCCATCTTCACTCCTGTCCACCTGGCTGGAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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 Red=Cloning site Green=Tags(s)

MSSTKLEDSLPRRNWSSASELNETQEPFLNPTDYDDEEFLRYLWREYLHPKEYEWVLIAGYIIVFVVALI
 GNVLVCVAVWKNHHMRTVTNYFIVNLSLADVLVTITCLPATLVVDITETWFFGQSLCKVIPYLQTVSVSV
 SVLTLSCIALDRWYAICHPLMFKSTAKRARNISIVVIWVSCIIMIPQAIVMERSMLPGLANKTTLFTVC
 DERWGGEVYPKMYHICFFLVTYMAPLCLMVLAYLQIFRKLWCRQIPGTSSVVQRKWKQPVSQPRGSGQ
 QSKARISAVAAEIKQIRARRKTARMLMVLLVFAICYLPISILNVLKRVFGMFTHTEDRETYYAWFTFSH
 WLWYANSAANPIIYNFLSGKFREEFKAAFSCCLGVHRRQGDRLARGRTSTESRKSLTTQISNFDNVSKLS
 EHVALTSISTLPAANGAGPLQNWYLQQGVPSLLSTWLEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

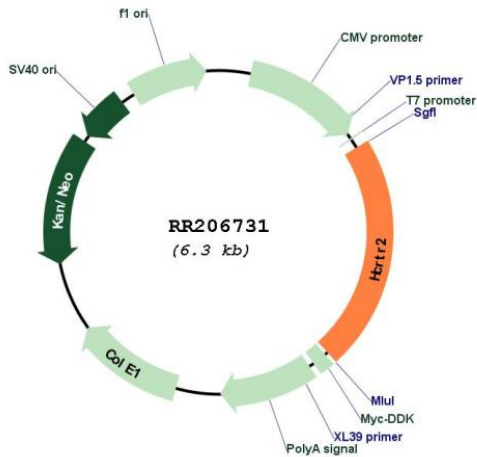
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_013074
ORF Size:	1380 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_013074.1 , NP_037206.1
RefSeq Size:	3114 bp
RefSeq ORF:	1383 bp
Locus ID:	25605
UniProt ID:	P56719
Cytogenetics:	8q24
MW:	52.5 kDa
Gene Summary:	G-protein coupled receptor that binds orexin neuropeptides; involved in regulation of feeding behavior [RGD, Feb 2006]