

## Product datasheet for SC119187

### Orexin Receptor 2 (HCRTR2) (NM\_001526) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Orexin Receptor 2 (HCRTR2) (NM\_001526) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Orexin Receptor 2  
**Synonyms:** ORXR2; OX2R; OXR2  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001526 edited  
 ATGTCCGGCACCAAATTGGAGGACTCCCCCTTGTGCGCAACTGGTCATCTGCTTCGGAG  
 CTGAATGAAACTCAAGAGCCCTTTTAAACCCACCGACTATGACGACGAGGAATTCCTG  
 CGGTACCTGTGGAGGAATACCTGCACCCGAAAGAATATGAGTGGGTCTGATCGCCGGG  
 TACATCATCGTGTTCGTGCTGGCTCTCATTGGGAACGTCCTGGTTTGTGTGGCAGTGTGG  
 AAGAACCACCACATGAGGACGGTAACCAACTACTTCATAGTCAATCTTTCTGCGCTGAT  
 GTGCTCGTGACCATCACCTGCCTTCCAGCCACACTGGTCGTGGATATCACTGAGACCTGG  
 TTTTTGGACAGTCCCTTGCAAAGTGATTCTTATCTACAGACCGTGTGCGGTGTCTGTG  
 TCTGTCTCACACTGAGCTGTATCGCCTGGATCGGTGGTATGCAATCTGTACCCTTTG  
 ATGTTAAAGAGCACAGCAAAGCGGGCCCGTAACAGCATTGTCATCATCTGGATTGTCTCC  
 TGCATTATAATGATTCTCAGGCCATCGTCATGGAGTGCAGCACCGTGTCCAGGCTTA  
 GCCAATAAAACCACCCTTTTACGGTGTGTGATGAGCGCTGGGGTGGTGAATTTATCCC  
 AAGATGTACCACATCTGTTTCTTCTGGTGACATACATGGCACCCTGTGTCTCATGGTG  
 TTGGCTTATCTGCAAAATATTTGCAAACTCTGGTGTGCGACAGATCCCTGGAAATCATCT  
 GTAGTTCAGAGAAAATGGAAGCCCTGCAGCCTGTTTACAGCCTCGAGGGCCAGGACAG  
 CCAACGAAGTCCCGGATGAGCGCTGTGGCGGCTGAAATAAAGCAGATCCGAGCCAGAAGG  
 AAAACAGCCCGGATGTTGATGATTGTGCTTTTGGTATTTGCAATTTGCTATCTACCAATT  
 AGCATCTCAATGTGCTAAAGAGAGTATTTGGGATGTTTGGCCATACTGAAGACAGAGAG  
 ACTGTGATGCCCTGGTTTACCTTTTACACTGGCTTGTATGCCAATAGTGCCGCGAAT  
 CCAATTATTTATAATTTTCTCAGTGGAAAATTTGAGAGGAATTTAAAGCTGCGTTTTCT  
 TGCTGTTGCCCTTGAGTTCAACATCGCCAGGAGGATCGGCTCACCAAGGGACGAAGTAGC  
 ACAGAGAGCCGGAAGTCTTGACCACTCAAATCAGCAACTTTGATAACATATCAAAACTT  
 TCTGAGCAAGCTGTGCTCACTAGCATAAGCACACTCCCAGCAGCCAATGGAGCAGGACCA  
 CTTCAAACTGGTAG

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_001526
<b>Insert Size:</b>	1400 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_001526.2.
<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_001526.2</a> , <a href="#">NP_001517.1</a>
<b>RefSeq Size:</b>	1843 bp
<b>RefSeq ORF:</b>	1335 bp
<b>Locus ID:</b>	3062
<b>UniProt ID:</b>	<a href="#">O43614</a>
<b>Cytogenetics:</b>	6p12.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein binds the hypothalamic neuropeptides orexin A and orexin B. A related gene (HCRTR1) encodes a G-protein coupled receptor that selectively binds orexin A. [provided by RefSeq, Jan 2009]