

Product datasheet for **SC315431**

Orexin Receptor 1 (HCRTR1) (NM_001525) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Orexin Receptor 1 (HCRTR1) (NM_001525) Human Untagged Clone
Tag:	Tag Free
Symbol:	Orexin Receptor 1
Synonyms:	ORXR1; OX1R; OXR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001525 edited
 GGGGAGGGGCGGGGAGCTGGGCTGGCTGGATTTATGAATGGAGAGCGACCCGCGGCCGG
 AACAGCGGCTCCTGGCGGCCGTCGGGGAGCGTCGCGGCCCTGGGGACCCAAAGGGGCCTC
 TTAGGGGGCTGGATGCTCCCCTTGCTCGCAAGGGGTCGTCAGTCCCTCCGCGCACACC
 CCCACTGTGTGTGTTGTATGTGTGCGTGTCCGCGAGTGCCACCGGAGGGTCTGGCAG
 GTATGGCGGGTGGGGCTTGGGTCTCAACACCTCCCTTGGCCCCGTTTTCCCAACCCAAAG
 TTAAAGCCTCTGAACCTGGCTCAAGAAATATTTGCAATCGGGATGGCTTCTCCTCCCAAAT
 CTACGGTGTGGTGGGTTCTGAACAGACCTGGCTTAAGAGCTTTGTGACCTTGAGCAAGA
 GACTCAATCTCTGAGCTTCGGTCTCATCTGCAAGCAGGGTACCCTAATAATGTTAAC
 CGGAAACGTCGCCGAACTACCTTCTCGTACCAGGTTCTTGGTGAAGCACTTGGCAGCA
 TCGGAGCTCATTACTCCTCATCGTGGTCTGTAAGGTATGTAGGGCTGTCAACCCATTAG
 ACAGATGGGAAACCAAGGCTGAAAGAGGCCAGGTAAGTACCCAAGGCAACTGGTGTGG
 AATTGGGATGCAACCCAGGTCTGTCTTCCCTCCACCAATTCATGACTGTGAGAATTAAGA
 GGGAACTTATACGAAAGCGCTGGCACAATCCCTAATGTTTCCCTTCTCTCTTTTC
 CCACTCCTCCTTCCCTTCCCTCAGGAAGTTTGGAGCTGAGACCCGAAAAGACTGG
 GTGCAAGCTCCAGGCACCTGAAGGGAGTGGGCTGAGGGCTGGCCCAAGCTCCCTCCTC
 TCCTCTGTAGAGCCTAGGATGCCCTCTGCTGCAGCGGCTCCTGAGCTCATGGAGCCCT
 CAGCCACCCAGGGGCCAGATGGGGTCCCCCTGGCAGCAGAGAGCCGTCCCCGTGTC
 CTCCAGACTATGAAGATGAGTTTCTCCGCTATCTGTGGCGTGATTATCTGTACCCAAAAC
 AGTATGAGTGGTCTCATCGCAGCCTATGTGGCTGTGTTGTCGTCGGCCCTGGTGGGCA
 ACACGCTGGTCTGCCTGGCCGTGGCGGAACCCACATGAGGACAGTCACCAACTACT
 TCATTGTCAACCTGTCCCTGGCTGACGTTCTGGTACTGCTATCTGCCTGCCGGCCAGCC
 TGCTGGTGGACATCACTGAGTCTGGCTGTTTCGGCCATGCCCTGCAAGGTCATCCCCT
 ATCTACAGGCTGTGTCGTCAGTGGCAGTGCTAACTCTCAGCTTCATCGCCCTGGACC
 GCTGGTATGCCATCTGCCACCCACTATTGTTCAAGAGCACAGCCCGGGCCCGGCTGGCT
 CCATCCTGGGCATCTGGGCTGTGTCGCTGGCCATCATGGTGGCCAGGCTGCAGTCATGG
 AATGCAGCAGTGTGCTGCCTGAGCTAGCCAACCGCACACGGCTCTTCTCAGTCTGTGATG
 AACGCTGGGCAGATGACCTCTATCCCAAGATCTACCACAGTTGCTTCTTTATTGTCACCT
 ACCTGGCCCCACTGGGCTCATGGCCATGGCCTATTTCCAGATATCCGCAAGCTCTGGG
 GCCCCAGATCCCCGGCACCCACTCAGCACTGGTGGGAACTGGAAGCGCCCTCAGACC
 AGCTGGGGGACCTGGAGCAGGGCTGAGTGGAGAGCCCCAGCCCCGGGCCGCGCCTTCC
 TGGCTGAAGTGAAGCAGATGCGTGACGAGGAAGACAGCAAGATGCTGATGGTGGTGC
 TGCTGGTCTTCGCCCTCTGCTACCTGCCATCAGCGTCTCAATGTCTTAAGAGGGTGT
 TCGGGATGTTCCGCCAAGCCAGTGACCGCGAAGCTGTCTACGCTGCTTACCTTCTCCC
 ACTGGCTGGTGTACGCCAACAGCGCTGCCAACCCCATCATCTACAACCTCCTCAGTGGCA
 AATTCCGGGAGCAGTTAAGGCTGCCTTCTCCTGCTGCCTGCCTGGCCTGGGTCCTGCG
 GCTCTCTGAAGGCCCTAGTCCCCGCTCCTCTGCCAGCCACAAGTCTTGTCTTGCAGAG
 GCCGATGCTCCGTCTCCAAAATCTTGAGCATGTGGTGTCTCACCAGCGTCAACACAGTGC
 TGCCCTGAGCGAGGGCTGCCCTGGAGGCTCCGGCTCGGGGGATCTGCCCTACCCCTCAT
 GGAAAGACAGCTGGATGTGGTGAAGGCTGTGGCTTCAAGTCTGGGTTTCTGCCTGTGTG
 ACTCTGGATAAGTCACTTCTCTGTCTGAGCTTGTGTCCCGAAGCAGGGTTGATGTGAG
 GATTAAGCATGCTGAAGCAAGTGGAAAGCTCCTTGTAAGTGTGAAGTGTGTGGACATG
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001525
Insert Size: 2500 bp

OTI Disclaimer: 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.

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: The ORF of this clone is found to be a good match to NM_001525.1 except for 2 SNPs.

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_001525.1](#), [NP_001516.1](#)

RefSeq Size: 1564 bp

RefSeq ORF: 1278 bp

Locus ID: 3061

UniProt ID: [O43613](#)

Cytogenetics: 1p35.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein selectively binds the hypothalamic neuropeptide orexin A. A related gene (HCRTR2) encodes a G-protein coupled receptor that binds orexin A and orexin B. [provided by RefSeq, Jan 2009]