

## Product datasheet for **SC127569**

### Cannabinoid Receptor I (CNR1) (NM\_033181) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cannabinoid Receptor I (CNR1) (NM_033181) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cannabinoid Receptor I
Synonyms:	CANN6; CB-R; CB1; CB1A; CB1K5; CB1R; CNR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_033181 edited  
 ATGAAGTCGATCCTAGATGGCCTTGCAGATACCACCTTCCGCACCATCACCCTGACCTC  
 CTGGGAAGTCCCTTCCAAGAGAAGATGACTGCGGGAGACAACCCCGAGCTAGTCCCAGCA  
 GACCAGGTGAACATTACAGAATTTTACAACAAGTCTCTCTCGTCCTTCAAGGAGAATGAG  
 GAGAACATCCAGTGTGGGAGAAGTTCATGGACATAGAGTGTTCATGGTCTGAACCCC  
 AGCCAGCAGCTGGCCATTGCAGTCTGTCCCTCACGCTGGGCACCTTCACGGTCTGGAG  
 AACCTCTGGTGTGTGCGTCATCTCCACTCCCGCAGCCTCCGCTGCAGGCCTTCTAC  
 CACTTCATCGGCAGCCTGGCGGTGGCAGACCTCCTGGGGAGTGCATTTTTGTCTACAGC  
 TTCATTGACTTCCACGTGTTCCACCGCAAAGATAGCCGCAACGTGTTTCTGTTCAAAGT  
 GGTGGGGTACGGCCTCCTTCACTGCCTCCGTGGGCAGCCTGTTCTCACAGCCATCGAC  
 AGGTACATATCCATTACAGGCCCTGGCCTATAAGAGGATTGTCACCAGGCCCAAGGCC  
 GTGGTGGCGTTTTGCCTGATGTGGACCATAGCCATTGTGATCGCCGTGCTGCCTCTCCTG  
 GGCTGGAAGTGGCAGAACTGCAATCTGTTTGCTCAGACATTTTCCCACACATTGATGAA  
 ACCTACCTGATGTTCTGGATCGGGGTACCAGCGTACTGCTTCTGTTTCATCGTGTATGCG  
 TACATGTATATTCTGGAAGGCTCACAGCCACGCCGTCGCCATGATTACAGCGTGGCACC  
 CAGAAGAGCATCATCCACACGTCTGAGGATGGGAAGGTACAGGTGACCCGGCCAGAC  
 CAAGCCCGCATGGACATTAGGTTAGCCAAGACCCTGGTCTGATCCTGGTGGTGTGATC  
 ATCTGCTGGGGCCCTCTGCTTGAATCATGGTGTATGATGTCTTTGGGAAGATGAACAAG  
 CTCATTAAGACGGTGTTCGATTCTGCAGTATGCTCTGCCTGCTGAACTCCACCGTGAAC  
 CCCATCATCTATGCTCTGAGGAGTAAGGACCTGCGACACGCTTTCCGGAGCATGTTTCCC  
 TCTTGTGAAGGCACTGCGCAGCCTCTGGATAACAGCATGGGGACTCGGACTGCCTGCAC  
 AAACACGCAAACAATGCAGCCAGTGTTCACAGGGCCGAGAAAGCTGCATCAAGAGCAGC  
 GTCAAGATTGCCAAGGTAACCATGTCTGTGTCCACAGACACGTCTGCCGAGGCTCTGTGA

Restriction Sites:	NotI-NotI
ACCN:	NM_033181



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<b>Insert Size:</b>	5500 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_033181.2</a> , <a href="#">NP_149421.1</a>
<b>RefSeq Size:</b>	5387 bp
<b>RefSeq ORF:</b>	1236 bp
<b>Locus ID:</b>	1268
<b>UniProt ID:</b>	<a href="#">P21554</a>
<b>Cytogenetics:</b>	6q15
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<p>This gene encodes one of two cannabinoid receptors. The cannabinoids, principally delta-9-tetrahydrocannabinol and synthetic analogs, are psychoactive ingredients of marijuana. The cannabinoid receptors are members of the guanine-nucleotide-binding protein (G-protein) coupled receptor family, which inhibit adenylate cyclase activity in a dose-dependent, stereoselective and pertussis toxin-sensitive manner. The two receptors have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. Multiple transcript variants encoding two different protein isoforms have been described for this gene. [provided by RefSeq, May 2009]</p> <p>Transcript Variant: This variant (2) lacks an internal segment near the 5' end of the coding region, compared to variant 1. The resulting protein (isoform b) has a shorter and distinct N-terminus compared to isoform a. PubMed ID: 15620723 referred to this variant and its protein as CB1b.</p>