

## Product datasheet for **RC228916**

### Cannabinoid Receptor I (CNR1) (NM\_001160258) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cannabinoid Receptor I (CNR1) (NM_001160258) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cannabinoid Receptor I
Synonyms:	CANN6; CB-R; CB1; CB1A; CB1K5; CB1R; CNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC228916 representing NM\_001160258  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGTCGATCCTAGATGGCCTTGCAGATACCACCTTCCGCACCATCACCCTGACCTCCTGTACGTGG  
 GCTCAAATGACATTTCAGTACGAAGACATCAAAGGTGACATGGCATCCAAATTAGGGTACTTCCCACAGAA  
 ATTCCCTTTAACTTCTTTAGGGGAAGTCCCTTCCAAGAGAAGATGACTGCGGGAGACAACCCCCAGCTA  
 GTCCCAGCAGACCAGGTGAACATTACAGAAATTTACAACAAGTCTCTCTCGTCTTCAAGGAGAATGAGG  
 AGAACATCCAGTGTGGGAGAACTTTCATGGACATAGAGTGTTCATGGTCTGAACCCAGCCAGCAGCT  
 GGCCATTGCAGTCTGTCCCTCACGCTGGGCACCTTACGGTCTGGAGAACCTCCTGGTGTGTGCGTC  
 ATCCTCCACTCCCGCAGCCTCCGCTGCAGGCCCTTCTACCACTTCATCGGCAGCCTGGCGGTGGCAGACC  
 TCCTGGGAGTGTCAATTTGTCTACAGCTTATTGACTTCCACGTGTTCCACCGCAAAGATAGCCGCAA  
 CGTGTCTCTGTTCAAACGGGTGGGTGACGGCCTCTTCACTGCCTCCGTGGGAGCCTGTTCTCACA  
 GCCATCGACAGGTACATATCCATTACAGGCCCTTGGCCTATAAGAGGATTGTCACCAGGCCAAGGCCG  
 TGGTGGCCTTTGCTGATGTGGACCATAGCCATTGTGATCGCCGTGCTGCCTCTCTGGGCTGGAAGT  
 CGAGAACTGCAATCTGTTTGTCTCAGACATTTCCACACATTGATGAAACCTACCTGATGTTCTGGATC  
 GGGGTACCAGCGTACTGCTTCTGTTTATCGTGTATGCGTACATGATATTTCTCTGGAAGGCTCACAGCC  
 ACGCCGTCGCGATGATTCAGCGTGGCACCAGAGAGCATCATATCCACACGTCTGAGGATGGGAAAGGT  
 ACAGGTGACCCGGCCAGACCAAGCCGCATGGACATTAGGTTAGCAAGACCCTGGTCTGATCCTGGTG  
 GTGTTGATCATCTGCTGGGCCCCTGCTTGAATCATGGTGTATGATGTCTTTGGGAAGATGAACAAGC  
 TCATTAAGACGGTGTGTTGCAATTCAGTATGCTGCTGCCTGACTGAACTCCACCGTGAACCCATCATCTA  
 TGCTCTGAGGAGTAAGGACCTGCGACACGCTTTCGGGAGCATGTTCCCTCTTGTGAAGGCACTGCGCAG  
 CCTCTGGATAACAGCATGGGGACTCGGACTGCCTGCACAAACGCAAAACAATGCAGCCAGTGTTCACA  
 GGGCCGAGAAAGCTGCATCAAGAGCACGGTCAAGATTGCCAAGTAACCATGTCTGTGTCCACAGACAC  
 GTCTGCCGAGGCTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228916 representing NM\_001160258  
 Red=Cloning site Green=Tags(s)

MKSILDGLADTTFRITITDLLYVGSNDIQYEDIKGMASKLGYFPQKFPPLTSFRGSPFQEKMTAGDNPQL  
 VPADQVNITFYNKLSLSSFKENEENIQCGENFMDIECFMVLNPSQQLAIAVLSLTLGFTVLENLLVLCV  
 ILHSRSLRCRPSYHFIGSLAVADLLGSVIFVYSFIDFHVFHRKDSRNVFLFKLGGVTASF TASVGSFLT  
 AIDRYISIHRLAYKRIVTRPKAVVAFCLMWTIAIVIAVLP LLGWNCEKLSVCSDIFPHIDETYLFWI  
 GVTSVLLLFIVYAYMYILWKAHSHAVRMIQRGTQKSIIHTSEDGKVQVTRPDQARMDIRLAKTLVLILV  
 VLIICWGPLLAIMVYDVF GKMNLIKTVFAFC SMLCLLNSTVNP IYALRSKDLRHAFRSMFPCSCEGTAQ  
 PLDNSMGDSDCLHKHANNAASVHRAAESCIKSTVKIAKVTMSVSTDTSAEAL

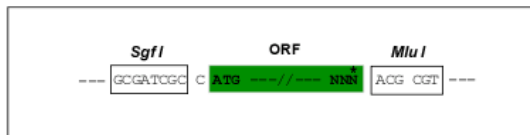
**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001160258

**ORF Size:** 1416 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\\_001160258.3](#)
**RefSeq Size:** 5901 bp

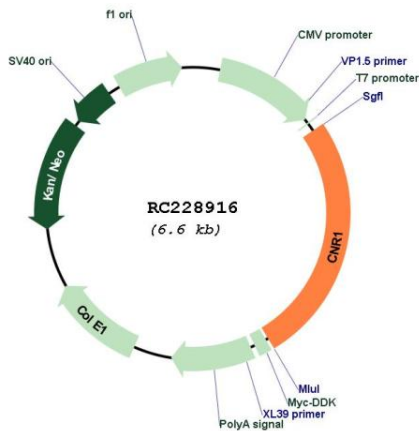
**RefSeq ORF:** 1419 bp

**Locus ID:** 1268

**UniProt ID:** [P21554](#)

<b>Cytogenetics:</b>	6q15
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	52.9 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RC228916