

Product datasheet for **RG210397**

Cannabinoid Receptor I (CNR1) (NM_016083) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cannabinoid Receptor I (CNR1) (NM_016083) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cannabinoid Receptor I
Synonyms:	CANN6; CB-R; CB1; CB1A; CB1K5; CB1R; CNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210397 representing NM_016083
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTCGATCCTAGATGGCCTTGCAGATACCACCTTCCGCACCATCACCCTGACCTCCTGTACGTGG
 GCTCAAATGACATTACAGTACGAAGACATCAAAGGTGACATGGCATCCAAATTAGGGTACTCCCACAGAA
 ATTCCCTTTAACTTCCTTTAGGGGAAGTCCCTTCCAAGAGAAGATGACTGCGGGAGACAACCCCCAGCTA
 GTCCCAGCAGACCAGGTGAACATTACAGAAATTTACAACAAGTCTCTCTCGTCTTCAAGGAGAATGAGG
 AGAACATCCAGTGTGGGAGAATTCATGGACATAGAGTGTTCATGGTCTGAACCCAGCCAGCAGCT
 GGCCATTGCAGTCTGTCCCTCACGCTGGGCACCTTACGGTCTGGAGAACCTCCTGGTGTGTGCGTC
 ATCTCCACTCCCGCAGCCTCCGCTGCAGGCCCTTCTACCACTTCATCGGCAGCCTGGCGGTGGCAGACC
 TCCTGGGAGTGTCATTTTGTCTACAGCTTCATTGACTTCCACGTGTTCCACCGCAAAGATAGCCGCAA
 CGTGTCTCTGTTCAAACGGGTGGGTACGGCCTCCTTACTGCCTCCGTGGGAGCCTGTTCTCACA
 GCCATCGACAGGTACATATCCATTACAGGCCCTGGCCTATAAGAGGATTGTCACCAGGCCAAGGCCG
 TGGTGGCCTTTGCCTGATGTGGACCATAGCCATTGTGATCGCCGTGCTGCCTCTCTGGGCTGGAAGT
 CGAGAACTGCAATCTGTTTGTCTCAGACATTTCCACACATTGATGAAACCTACCTGATGTTCTGGATC
 GGGGTACCAGCGTACTGCTTCTGTTTATCGTGTATGCGTACATGTATATCTCTGGAAGGCTCACAGCC
 ACGCCGTCGCGATGATTCAGCGTGGCACCAGAAGAGCATCATATCCACACGTCTGAGGATGGGAAGGT
 ACAGGTGACCCGGCCAGACCAAGCCGCATGGACATTAGGTTAGCCAAGACCCTGGTCTGATCCTGGTG
 GTGTTGATCATCTGCTGGGCCCCTGCTTGAATCATGGTGTATGATGTCTTTGGGAAGATGAACAAGC
 TCATTAAGACGGTGTGTTGCATTTGCAGTATGCTGCCTGCTGAACCCATCCACCCATCATCTA
 TGCTCTGAGGAGTAAGGACCTGCGACACGCTTTCGGGAGCATGTTCCCTCTTGTGAAGGCACTGCGCAG
 CCTCTGGATAACAGCATGGGGACTCGGACTGCCTGCACAAACGCAAAACAATGCAGCCAGTGTTCACA
 GGGCCGAGAAAGCTGCATCAAGAGCACGGTCAAGATTGCCAAGTAACCATGTCTGTGTCCACAGACAC
 GTCTGCCGAGGCTCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210397 representing NM_016083
 Red=Cloning site Green=Tags(s)

MKSILDGLADTTFRITITDLLVGSNDIQYEDIKGMASKLGYFPQKFPPLTSFRGSPFQEKMTAGDNPQL
 VPADQVNITEFYNKSLSSFKENEENIQCGENFMDIECFMVLNPSQQLAIAVLSLTLGTFVLENLLVLCV
 ILHSRSLRCRPSYHFIGSLAVADLLGSVIFVYSFIDFHVFRKDSRNVFLFKLGGVTASFTASVGSFLT
 AIDRYISIHRLAYKRIVTRPKAVVAFCLMWTIAIVIAVPLLLGWNCEKLSVCSDIFPHIDETYLFWI
 GVTSVLLLFIVYAYMYILWKAHSHAVRMIQRGTQKSIIHTSEDGKVQVTRPDQARMDIRLAKTLVLILV
 VLIICWGPLLAIMVYDVFVKMNLIKTVFAFCMLCLLNSTVNPPIYALRSKDLRHAFRSMFSPCEGTAQ
 PLDNSMGDSDCLHKHANNAASVHRAAESCIKSTVKIAKVTMSVSTDTSAEAL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016083

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_016083.6](#)

RefSeq Size: 5486 bp

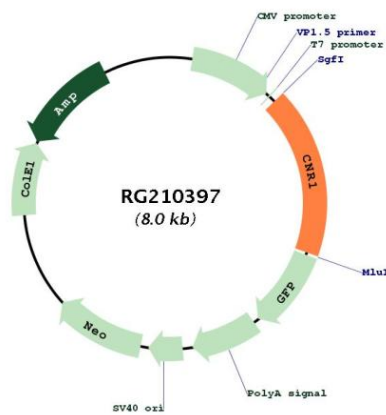
RefSeq ORF: 1419 bp

Locus ID: 1268

UniProt ID: [P21554](#)

Cytogenetics:	6q15
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	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 RG210397