

Product datasheet for SC118984

Cannabinoid Receptor II (CNR2) (NM_001841) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cannabinoid Receptor II (CNR2) (NM_001841) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Cannabinoid Receptor II |
| Synonyms: | CB-2; CB2; CX5 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC118984 sequence for NM_001841 edited (data generated by NextGen Sequencing) |

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ATGGAGGAATGCTGGGTGACAGAGATAGCCAATGGCTCCAAGGATGGCTTGGATTCCAAC
CCTATGAAGGATTACATGATCCTGAGTGGTCCCCAGAAGACAGCTGTTGCTGTGTTGTGC
ACTCTTCTGGCCCTGCTAAGTGCCTGGAGAACGTGGCTGTGCTCTATCTGATCCTGTCC
TCCCACCGGCTCCGCCGAAGCCCTCATACCTGTTATTGGCAGCTTGGCTGGGGCTGAC
TTCCTGGCCAGTGTGGTCTTTGCATGCAGCTTTGTGAATTTCCATGTTTTCCATGGTGTG
GATTCCAAGGCTGTCTTCTGCTGAAGATTGGCAGCGTGACTATGACCTTACAGCCTCT
GTGGGTAGCCTCCTGCTGACCGCATTGACCGATACCTCTGCCTGCGCTATCCACCTTCC
TACAAAGCTCTGCTCACCCGTGGAAGGGCACTGGTGACCCTGGGTATCATGTGGGTCTC
TCAGCACTAGTCTCCTACCTGCCCTCATGGGATGGACTTGCTGTCCCAGGCCCTGCTCT
GAGCTTTTCCCACTGATCCCAATGACTACCTGCTGAGCTGGCTCCTGTTTCATCGCTTC
CTCTTTTCCGGAATCATCTACACCTATGGGCATGTTCTCTGGAAGGCCCATCAGCATGTA
GCCAGCTTGTCTGGCCACCAGGACAGGCAGGTGCCAGGAATGGCCGAATGAGGCTGGAT
GTGAGGTTGGCCAAGACCCTAGGGCTAGTGTGGCTGTGCTCCTCATCTGTTGGTTCCCA
GTGCTGGCCCTCATGGCCACAGCCTGGCCACTACGCTCAGTGACCAGGTCAAGAAGGCC
TTTGCCTTCTGCTCCATGCTGTGCCTCATCAACTCCATGGTCAACCCTGTCTATGCT
CTACGGAGTGGAGAGATCCGCTCCTCTGCCATCACTGCCTGGCTCACTGGAAGAAGTGT
GTGAGGGCCTTGGGTGAGAGCAAAAAGAAGAAGCCCCAAGATCCTCAGTCACGGAGACA
GAGGCTGATGGGAAAATCACTCCGTGGCCAGATTCCAGAGATCTAGACCTCTCTGATTGC
TGA

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Clone variation with respect to NM_001841.2
188 a=>g;189 a=>g;465 c=>t;660 g=>a;751 t=>c;846 t=>c;999 g=>a;1014 c=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001841 unedited
 GGGTTGGGGGNGNNNNNGGGTTNNNNNCCGGTTCAAAATTGTATACGACTCATATAGG
 CGGCCCGGAATCACTTAATCGCCTTGACGACATCCCCCTTCGCCAGCTGGCGTAATA
 GCGAAGAGGCCCGACCCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATTCGGCACCAG
 GCTGGCTTGGGGTGGCACTCAACAGGTGCTCTGAGTGGACCCACGGCCAGGTCTGGGA
 GAGGACAGAAAACAACCTGGGACTCCTCAGCCCCGGCAGCTCCCAGTGCCAGCCACCCA
 CAACACAACCCAAAGCCTTCTAGACAAGCTCAGTGAATCTGAAGGGCCACCCCATGGA
 GGAATGCTGGGTGACAGAGATAGCCAATGGCTCCAAGGATGGCTTGGATTCCAACCTAT
 GAAGGATTACATGATCCTGAGTGGTCCCCAGAAGACAGCTGTTGCTGTGTGTGACTCT
 TCTGGGCTGCTAAGTGCCTGGAGAACGTGGCTGTGCTCTATCTGATCCTGTCTCCCA
 CCGGCTCCGCCGAAGCCCTCATACCTGTTCAATTGGCAGCTTGGCTGGGGCTGACTTCT
 GGCCAGTGGTCTTTCATGCAGCTTTGTGAATTTCCATGTTTTCCATGGTGTGGATTC
 CAAGGCTGTCTTCTGCTGAAGATTGGCAGCGTACTATGACCTTACAGCCTCTGTGGG
 TAGCCTCTGCTGACCGCATTGACCGATACCTCTGCCTGCGCTATCCACCTTCTACAN
 AGCTCTGCTACCCGTGGAAGGGCACTGGTACCCTGNGTATCATGTGGTCTCTCAGC
 ACTAGTCTNCTACCTGCCCTCATGGGATGGACTTGTGTCCCAGCCCTGCTCTGAGCTT
 TTCACCTGATCCCATGACTACCTGCTGAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001841 unedited
 GGGGGTAGGTTTCATCCCGAATATTTACAAAAGGGCCCTCTGTTTNCATTTTTNCCTTTG
 NGAGTCCCAATAATTGCATTAGNATTCCTCTGCAATCTTCTGCCACCAACAATTTCTCT
 TGTTGGCTGTTTTAGGCTCCTCTGGGAGGAACCCAGCCTCCCTCATATGAAAAATGAGTA
 CCCTGGGATCTATTTATTTATTTTTTTTTTGGAGACAGAGTCTTGCTCTGTCAACCAGGCT
 GGAGTGCAGTGGTCAATCTCGGCTCACTGCAACCTCTGCCTCCAGGGTTCAAGCAATTC
 TCTGTCTCAGCCTCCCGAGTAGCTGGGACTACAGATGCCTGCCACCATGCCCTGCCAAT
 TTTTGTATTTTTAGTAGAGACAGGGTTTCAACCATATTGGTCAGGCTGGTCTCAAACCTCC
 CGACCCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGTGGGATTACAGGCATGAGCC
 ACCATGCCTGGCCCTGAGATCTTAAAATCATGGAGCTGTATTCTAGCTGGGGTCAATA
 GACTGAAATGTCAGCCCCATACCTGGCATAAGGAAGGACATTTCCCTCCTCCCACTTG
 CTCTGCTTATTATATGTAATAGGGGCGTGGAGGAGGCAAGGGAGCTGAATTGGGGCAGA
 TAGGGGAACAGTTTGGAGATTTATACAATCTTTGTGAATATCTTCTTTTTTTTCTCGAG
 TTCGTTAGACTAGGACATTGCCTGCTTCCAGCAGCACCACCAGGACTGCTGCTTGAAGA
 CTTACAGGGTCAAGAAAATTCTCAAAGATTTTTGTGTCTCACGCGATCCCCACCTCCT
 CTGTTATTTCCAGGGACCTGAGGTTACAGGGGGGATTATCAACATATCACAAAAGGGTC
 CTTCCGCAACCACAAGATGCCCAAACCTGAAGGTTGCTCTTTTATCTTGAAGAG

Restriction Sites:

NotI-NotI

ACCN:

NM_001841

Insert Size:

3100 bp

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| OTI Disclaimer: | <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 custsupport@origene.com 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. More info</p> |
| 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: | <ol style="list-style-type: none"> 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_001841.1 , NP_001832.1 |
| RefSeq Size: | 1776 bp |
| RefSeq ORF: | 1083 bp |
| Locus ID: | 1269 |
| UniProt ID: | P34972 |
| Cytogenetics: | 1p36.11 |
| Protein Families: | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways: | Neuroactive ligand-receptor interaction |
| Gene Summary: | <p>The cannabinoid delta-9-tetrahydrocannabinol is the principal psychoactive ingredient of marijuana. The proteins encoded by this gene and the cannabinoid receptor 1 (brain) (CNR1) gene have the characteristics of a guanine nucleotide-binding protein (G-protein)-coupled receptor for cannabinoids. They inhibit adenylate cyclase activity in a dose-dependent, stereoselective, and pertussis toxin-sensitive manner. These proteins have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. The cannabinoid receptors are members of family 1 of the G-protein-coupled receptors. [provided by RefSeq, Jul 2008]</p> |