

Product datasheet for **RN202386**

Cc2d1a (NM_001013869) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cc2d1a (NM_001013869) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cc2d1a
Synonyms:	RGD1306108
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN202386 representing NM_001013869
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACAAGAGGAATGGACCCAGGCACCCCGGGCCGAGGTGCTGTACCGCCCGCAGCTTGGTCTGC
 TGGTTGACTTCTCCCAGATGGCCTGATGATCCCTGAGGATGGGGTAAATGATGAAGAATTGGAGGCTGA
 ATTCCTGGCTTTGGTGGGGGTACGCCAGGCCCTAGAGAAACTGAAAGCAAAGGTCCCTGCCAATG
 GAAGCCATTGAGAAAATGGCCGGCTCTGCATGAGAGACCTGGATGAGGATGAGGAGGGGACAGATGAGG
 ATGTGGAGGCTGACGAGGACCTGCTGGCAGAGCTAAATGAGGTCCTTGGAGAAGAAAGGAAGGCTGTGGA
 GCCCGCATGCCTGTGGTCCAGACGCTGGAAAACCTGCTGGTCTCTGCAAAGAAGGGCAACACCATCAAT
 GAAGCCGATATCCACCACCTGTAGCCTCGGGAAAGGGCCAGCAATTGGGCACAGCCACCCACACTA
 CTTCCACCTGGCTCCTGTAAGCCCGCCAGCCCCAGAGCCAGCGTCACCTTGGAGGCCCATCTACCAC
 TGCACAAAACCTCTGCTAAGCCCCAGCTATCCCCAGATCCCTGCAGCCCCCTTGCCCGGTTGCAGAGCCTC
 CAGCATGAGTACAAAGTGGCTGCTCTCAGAGCCAAGCATCAGGATGACACTGCTACAGCCGCCAGATACT
 TGAGAGTCTCGAAGAGCTTTGACCCTGTCTTGGAGGCCCTGAGCCGAGGGAACTGGTAGACCTGTCCCG
 CCTGCCCCCTCCACCTGACCAGCTGTCCCAGAGCCCCCTTGCCAGCAGCCCAACCTGTGACTCCTGCC
 TCAACACTCACCAGGCCAGAGGTTCCCCAGCCCCGAAGAACCTCCTGGAGGCGCTGGAGCAGCGAATGG
 AGCGGTACCACGTGGCTGCAGCCAGGCCAAGGCCAAGGGTGACCAGAGGAAGGCACGCATGCACGAACG
 AATTGTCAAGCAATACCAAGATGCTATTCGAGCCACAAGGCAGGCCGAGCTGTGGATGTGGCTGAGCTC
 CCAGTCCCCCAGGCTTCCCCCAATTCAGGGCTTGGAGTCTGCGGAGCCTTCTCAGCAGAGCCTGGTGG
 GAGTCTTAGAAAACCGCCATGAAGCTTGCACACCCAGCCGAAGAGGCTCAGATGAGGAAGGAAGAGACTCC
 AAAGAAGAACAACCCCTGCTGCCTCCACAGCCAGCCGAAGGCTCGCCCTCCAGGGCACCTCCATCAGGA
 CCAGCCCCAGCAGGCAAAGCTGCTTCCAAGGGCACCTCCACCAGGGCCAGCAGCAGCTGGCCTTCTGG
 AGGGCCGTAAAGAAGCAGCTCCTTCAGGCTGCGCTGCGCGCAAGCAAAGAACGACGTAGAGGGCGCCAA
 GATGCATCTGCGCCAGGCCAAAGGGCTGGAGCCATGCTAGAGGCTCCCGCAATGGACTGCCTGTGGAT
 ATTGCCAAGGTGCCACCTGCTCCTGTCAACAAGGATGATTTTGTGCTGGTCCAGCGGCTGGCCAGGCA
 TGTCTCAGGAGCCGTGCGTGCATGAGGAGCTTACCAAGCTCCTGAGACAGCAACATGAAATGTGTCT
 AAACCACTCCACACAGTTCAACCCACTGGGCAACATTGCTGAAACCATTAAGTTCGAGAAGCTGGCAGAA
 GACTGTAAGCGGAGCATGGACACCTTAAAACAAGCCTTCGCCCGAGTCTGCCACACCTGCAGCCCGCT
 TTGAGCAAAGGACCTTCAGTGCATCAAGATCTTCCGGACTTGAGCAACAACGACATGCTCCTGTTTAT
 TGTGAAGGGCATCAACTGCCACACCCCAAGGACTGTCCCCAGTGACCTGGATGCCTTTGTCCGCTTC
 GACTTCCCTTATCCCAATGTGGAGGAAGCTCAGAAAGTAAGACCAGCGTGATCAAAAGCACAGACTCCC
 CTGAATTAAGGAGCAGTTCAAACCTCTGCATCAACCGTGGCCACCGTGGCTTCCGAAGGGCCATCCAAAC
 CAAGGGCATCAAGTTCGAAGTGGTCCACAAGGGGGGATTATTTAAGACTGACAGGGTGTGGGGACAGCC
 CAGCTGAAGCTGGATACATTGGAACAGCTTGTGAGGTCCACGAGATCCTGGAGGTTTGGATGGCCGCC
 GGCCACAGGGGGTGCCTTGGAGTGTGGTCCGATCCGGGAGCCACTGACAGCCAGCAGTTGGAGAC
 TACAACCTGAGAGGTGGTGGTCAATTGATCACATCCAGCAGCTGTGCCACTGTCACTGGGCCAAAGCA
 AAGGTTCCCTCTACATACCTGCGTCTTCAAAGGAAGCAGGCAACAGATCATCACGGCCCTGCATAGCCTTA
 GTGTGCTGGCCTTTGACCAAGAGCGGCTAGAAAGGAAGATCCTGGCCCTGAGGCAGGCACCCGGCCTGT
 ACCTCCAGAAGTGGCCAGCAGTACCAGGACGTAGTACAGCGTAGCCAGTGGCAGAGGGCACAGCTGGAG
 CAGGGAGGTGCTGCCCTCCGAGGGAGTATGCAAGCCATCTGGAGCGCCAGCTGCACTTCTATACAGAGG
 CTGCCCGGCGCTGGGCTATGACGGAAGCAGGGAGGCCGGAAGGAGGCATTGTACCGCGGGAACCTGGT
 GGAGAGTGAGCTGCAGCGACTCCGAGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001013869

Insert Size:	2691 bp
OTI Disclaimer:	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).
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:	<u>NM_001013869.1</u> , <u>NP_001013891.1</u>
RefSeq Size:	3306 bp
RefSeq ORF:	2691 bp
Locus ID:	288908
UniProt ID:	<u>Q66HA5</u>
Cytogenetics:	19q11
Gene Summary:	Transcription factor that binds specifically to the DRE (dual repressor element) and represses 5-HT1A gene transcription through this element. Mediates HDAC-independent repression of HTR1A promoter. CAMK2G inhibits CC2D1a-induced repression of the HTR1A. May play a role in the altered regulation of 5-HT1A receptors associated with anxiety and major depression. Performs essential function in controlling functional maturation of synapses (By similarity). [UniProtKB/Swiss-Prot Function]