

Product datasheet for **MC222753**

Cc2d1a (NM_145970) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cc2d1a (NM_145970) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cc2d1a
Synonyms:	BC016188; Freud-1; Tape
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222753 representing NM_145970
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCACAAGAGGAATGGACCCAGGCACCCCGGGCCAGGTGCTGTCACTGCCCGCAGCTTGGTCTGC
 TGGTTGACTTCTCCCGAGACGGCCTGATGATCCCGAGGATGGGATTAATGAGGAGGAGCTGGAGGCTGA
 ATTCCTGGCTTTGGTGGGGGTCAAGCCAGGCCCTAGAGAACTGAAAGGCCAAGGTCCCTGCCAATG
 GAAGCCATTGAGAAGATGGCCCGCTCTGCATGAGAGACCTGGATGAGGACGAGGAGGGACAGACGAGG
 ATGATGTGGAGGCTGATGAGGACCTGCTGGCAGAGCTAAATGAGGTCTTGGAGAAGAACAAGGCTGT
 GGAGCCCTGATGCCTGTGGCCAGCCGAAGCCTTCAGGCCCAATCCAGGAGTAGAGGCCACGCTGCAG
 GAGAGGCTAACCTCTACCAGTCTGCACTGGAGAGTGCCAGGCAAGCTGGGGACAGTGCCAAGATGCGAC
 GCTATGACCGGGGCTCAAGACGCTGAAAACCTGCTGGTCTCTGCAAAGAAGGGCAACATCATCAATGA
 AGCAGACATCCACCACCTGTGGCATCGGGGAAGGGAGCAGCAGCTGGGCACAGCCACACCAAGCTACT
 TCCCAGTTGGCTTCTGTAAGCCCGCCAGCCCGAGCTCCAGCGGCACCTTGGAGGCCCATCTACCACTA
 CACCCACCTCTGCTAAGCCCGAGCTACCCCGAGATCCCTGCAGCCCTAGCCCGGTTGCAGAGCCTCCA
 GCACGAGTACAACTGGCTGCCCTTCGTGCCAAGCATCAGGATGACACTGCTACAGCCACAGACACTTG
 AGAATAGCTAAGAGCTTTGACCTGTCTTGGAGGCCCTGAGCCGTGGGGAAGTGGTGGACCTGTCCCGCC
 TGCCCTCCCTGACCCAGCTGTCCCGAGCCCTTGGCAGCTGCCAACCTTTGACCTCTGCCTC
 AACACTCACAGGCCAGAGGTTCCCAACCCCGAGGAACCTCCTGGAGGCTCTGGAACAGCGAATGGAG
 CGGTACCATGTGGCTGCAGCCAGGCCAAGGGCAAGGGTGACCAGCGGAAGGCACGCATGCATGAACGAA
 TTGCTCAAGCAATACCAAGACGCCATTCTGTGCCACAAGGCAGCCGAGCTGTGGATGTGGCGGAGCTGCC
 AGTGCCCGCAGGCTTCCCGCAATGCAGGTTTGGAGTCTGCAGAGCCCTCTCAACAGAGCCTAGTGGGT
 GTCTGGAAGTGCATGAGGCTTGCCAAACACGCAAGGCTCGGATGACGAAGAGGAGGAGACTCCTA
 AGAAGCAGAATACCCCTGCTGCCTCCACAACCCAGCTGAAAGTCTCGCCCTCAAAGCACCTCCATCAGG
 ACCAGCCCGAGCCGCAAGCTGCCCGCAAGGGCACATCCAACAGAGCCAGCAGCAGCTGGCCTTCTG
 GAGGGCCGTAAGAAGCAGCTCCTGCAGGCCGCTGCGTGCCAAAGAAAGACGCTAGAAGGGCCCA
 AGATGCACCTGCGCCAGGCCAAGGGCTAGAGCCATGCTAGAGGCTCTCGCAATGGACTGCCTGTGGA
 CATTGCCAAGGTGCCACCTGCTCTGTCAACAAGGACGACTTTGTGCTGGTGCAGCGCCTGGCCAGGC
 TTGTCTCAGGAAGCTGTGCGTGCATGAGGAACTTACCAAGCTCCTGAGACAGCAACATGAAATGTGTC
 TAAACCACTCCACACAGTTCACCACCTGGGCAACATTGCTGAAACCTTAAGTTCGAGAAGCTGGCAGA
 AGACTGTAAGCGGAGCATGGACACCTTAAAACAAGCCTTCGCCCGCAGTCTGCCACACCCCGAGCCCGC
 TTTGAGCAGAGGACCTTCAGTGTCAATCAAGGCTTTCCGGACTTGAGCAACAGTGACATGCTCTGTTTA
 TCGTGAAGGGCATCAACTTGCCACACCCACAGGGCTGTCCCGCAGTGCCTGGATGCCTTTGTCCGCTT
 TGACTTCCCTTATCCCAATGTGGAAGAAGCTCAGAAAGACAAGACCAGTGTGATCAAAAACAGACTCC
 CCTGAATTTAAGGAGCAGTTCAACTCTGCATCAACCGTGGCCACCGTGGCTTCCGAAGGGCCATCCAAA
 CCAAGGGCATCAAGTTCGAAGTGGTCCACAAGGGGGGCTGTTCAAGACGGACAGGGTGTAGGTACAGC
 CCAGCTGAAGCTGGGTACGTTGGAACAGCTTGTGAAGTCCACGAGATCCTGGAGTTTTGGATGGACGC
 CGACCCACGGGGGAGGCTTGAAGTGTGGTTGCGATCCGGGAGCCACTGACAGCCAGCAGTTGGAAA
 CTACAAGTGAAGGTGGCTGGTCAATGATCACATCCCAGCAGCTATGCCACTGTCACTGGGCCAAAGC
 AAAGGCTCCTCTCATACCGCGTCTTCAAGGGAAGCAGGCAACAGATCAGCACGGCCCTGCATAGCCTT
 AGCGTGTGGCCTTTGACCAAGAGCGGTAGAAAGGAAGATCCTGGCCCTGAGGCAGGCACCGCCGCTG
 TGCCTCCAGAAGTGGCCAGCAGTACCAGGACGTAGTACAGCGTAGCCAATGGCAGAGGGCACAGCTGGA
 GCAGGGGGGTGCTGCCCTCCGACGGGATGCAAGCCATCTGGAGCGCCAGCTGCACCTCTATACAGAG
 GCTGCCCGCCCTGGGCTACGATGGAAGCAGGGAGGCTGCAAAGGAGGCATTGTATCGGCGAACCTGG
 TGGAGAGCGAGCTGCAGCGACTCCGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_145970
Insert Size:	2832 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:	NM_145970.1 , NP_666082.2
RefSeq Size:	3349 bp
RefSeq ORF:	2832 bp
Locus ID:	212139
UniProt ID:	Q8K1A6
Cytogenetics:	8 C2
Gene Summary:	Transcription factor that binds specifically to the DRE (dual repressor element) and represses HTR1A gene transcription in neuronal cells. The combination of calcium and ATP specifically inactivates the binding with FRE. May play a role in the altered regulation of HTR1A associated with anxiety and major depression. Mediates HDAC-independent repression of HTR1A promoter in neuronal cell. Performs essential function in controlling functional maturation of synapses.[UniProtKB/Swiss-Prot Function]