

## Product datasheet for **MG220740**

### Cc2d1b (NM\_177045) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cc2d1b (NM_177045) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cc2d1b
Synonyms:	A830039B04Rik; Freud2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220740 representing NM\_177045  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCAGGGCCAAGACCTCGGAAGGGCCCTAAGACCAGTGGCCAGGGTGTCTGAGACTGCCAAGCAGCTGG  
 GGCTTTTTGTGGAGTTCAACCTGAGGACATGCTCCTGGGGTGGATGAGACTGAAGATGATGGAGACCT  
 GGAGGCTGAGTTACTGGCACTCACAGGGAAACAGCGAGCAGGAGCAGGAAGCCAGCACCCAAGGGGCAG  
 GCTCCACTGCCCATGGCCACATTGAGAAGCTGGCAGCAGACTGTATGCGAGATGTGGAGGAGGATGAAG  
 AAGAGGAAGGGCTGGAGGACGATGCAGACCTTCTGACAGAGCTGCAGGAGGTCTGGGTGAGGATGAAGA  
 AGCGGGTCTGCTGGACGGCAGTGGCCAGCAAGTCCAGACCTCTGTGAGGAGAAGACTTTGGGACAACACT  
 GAACTACCTGTAGAGCAGGCAGCCTGCCAACAGGCAGTACCTGCTGCAGCTCAGGCTGGAGGGCCTCGGG  
 GGCTGCAGGCTTTGCTGGAGAACGGATCCGTAACCTACCGGGAGGCCGCAGCCAGTGCCAAGGAGGCTGG  
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 AGGAAAGAGCCATCAAGAACCCTGAGATAGACTCTCCAGGTCCCTGTGCCATGGAGCCAGGCAACCTTTC  
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 TTAGCCCAGACAGAGAGATACAAGGCGGCTGCTCTCGATGCCAAGCGGGCTGGAGATCTAGACCGTGCTC  
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 TGGCCCCGCGGAGCCAACAACAGTGTGGATGCTTTACAGCAAAGGCTGAACAAGTATCGTGAGGCAGG  
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 GATGCTGTTGAGCTCATCAGGCAGGACAGAAAGTTGACTTTGCCGAGTTACCTGTTCTCCAGGATTTTC  
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 CCATTGGCCAAGAAGCCAGCGCAGACTCTGGTCTCTCCATCCCCTCTGACTGAGCCCAAGGCTTCAA  
 GTTCTAAGGAATCACTGAGTCCATCTGTTGGGAGCAGGTGACACTGCTGGAGGCTCGGAAACTGCAATA  
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 CGTTGACAGATGAAGAGGGGACTTCATCCTATTACCATGAGGATCTGCGACTCTCCAGAAGGCCGA  
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 TTTCAAGCTAAACATCAATCGAAACCACCGAGGCTTTAGGAGAGTGATCCAGAGCAAAGGAATCAAATTT  
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 GGCTGGAGAAGGAGTGTGAGATCAGAGAGATCATGGAGTTTTGGATGGCAGAAAGCCTACTGGGGGAA  
 GCTGGAGGTGAAGGTGAGGCTTCGGGAGCCTCTGAGCAGCCAGGACGTGCAGACGGTCACTGAGAAGTGG  
 CTGGTCTGGAGCCTCGGGCCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG220740 representing NM\_177045  
Red=Cloning site Green=Tags(s)

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MPGPRPRKGPKTSGQGAETAKQLGLFVEFNPEDMLLGVDETEDDGDLEALLAL TGETASRSRKPAPKGQ  
APLPMAHIEKLAADCMRDVEDEEEGLEDDADLL TELQEVLGEDEEAGLLDGSEAASPDLC EEKTWDNT  
ELPVEQAACQQAVPAAAQAGGPRGLQALLEERIRNYREAAASAKEAGEAAKARRCERGLKTLQSQLATVR  
KGGKICEDEI PPPVALGKRPPAPQERA IKNPEIDSPGPCAMEPGNLSQPESSLPAIAPL PDSDDPQALL  
LARQREYKAAALDAKRAGDLDRARELMRIGKRF GTVLEALEKGPVDLSGMPPAPADLKALPQASKASSA  
TQGLSPAVEQM QPVMASDLPATPVAPA EPTTVLDALQQRLNKYREAGIQARANGDERKARMHDRIAKQYQ  
DAVRAHQAGQKVDFAELPVPPGFPPIPGLEPRK GSEQDSVAATLATAQKLASEDAALVDDDEESDTPAQA  
PLAKKPAQTLVSPSHLLTEPKASSSKESLSPSVREQV TLL EARKLQYQRAALQAKRRQDLEQAKSHLRVA  
KSLEAQIIQARAGQPIDLSKVPSPLTDEEGDFIL IHHEDLRLSQKAEVYAQLQKMLQEQQAKCLLFSKQ  
YMHQGNVAETTRFERLAEDRKKQLEILQLAQAGL DPPSHHFELKTFQTVRIFSELNSTEMHLIIVRGMN  
LPAPPGVTPDDLDAFVRFEFHYPNSDQAQKSKTAVVKNTNSPEFEQVFKLNINRNHRGFRFRRVIQSKGIKF  
EIFHKGSFFRSDKLVGTAHLKLERLEKECEIRE IMEVL DGRKPTGGKLEVKVRLREPLSSQDVQTVTENW  
LVLEPRGL
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



<b>ACCN:</b>	NM_177045
<b>ORF Size:</b>	2544 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177045.3</a> , <a href="#">NP_796019.1</a>
<b>RefSeq Size:</b>	3286 bp
<b>RefSeq ORF:</b>	2547 bp
<b>Locus ID:</b>	319965
<b>UniProt ID:</b>	<a href="#">Q8BRN9</a>
<b>Cytogenetics:</b>	4 C7
<b>Gene Summary:</b>	Transcription factor that binds specifically to the DRE (dual repressor element) and represses HTR1A gene transcription in neuronal cells.[UniProtKB/Swiss-Prot Function]