

Product datasheet for **MG210801**

C2cd5 (NM_029081) Mouse Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | C2cd5 (NM_029081) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | C2cd5 |
| Synonyms: | 5730419I09Rik; C030008B15Rik; CDP138 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG210801 representing NM_029081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGGTGAATTACAGAGAAAGATTGGCTTGAAGTCCTCGAGATGAGAGGGAATGCAGTTGTTGGTT
 ACTTGCAGTGCTTGGATCTGGAGGGCAGTCTGGGTTAGTGGTCCGAGCCATAGGAACGGCGTGCACTCT
 GGATAAAGTACGAGAGCCAGCAGCGTTCCTTCCTGCATGCAGCTCCCATCCAGAGAACTGAAGGAGATT
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 AACCCCAAGTAAGAACCAGGCACAGTGTCTCATAAATGTCAGTGGGACCGGGTGGTGTGTTTCGTGACT
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 AACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

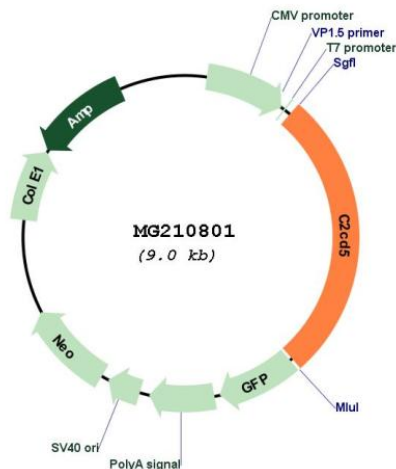
Protein Sequence: >MG210801 representing NM_029081
 Red=Cloning site Green=Tags(s)

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MSGELQRKIGLKVLEMRGNAVVGYLQCFDLEGESGLVVRAIGTACTLDKLSPPAAFLPACSSPSRELKEI
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TQSALEQREFPFLTLTAFPPGLLVHVGVSARSVKLLDRIHNPDEPETRDAWAEIRQEI KSHAKALGC
HAVVGYSESTICEEVCILSASGTAAVLNPRFLQEGTVEGCLEQRIEENLPVGC GFCHIPYDELNMPFPA
HLTYCYNCRKQKVPDVLFTTIDLPTDAVVVGKGLIQARLCRLKKAQAEANATAISNLLPFMEYEVHTQ
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FIPGAKITKYLGIINMFFIRETTSLREEGVSGFLHAFIAEVFAMVRAHVAALGGNAVVS YIMKQCVFME
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_029081

ORF Size: 2454 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_029081.1](#), [NP_083357.1](#)

RefSeq Size: 4202 bp

RefSeq ORF: 3051 bp

Locus ID: 74741

UniProt ID: [Q7TPS5](#)

Cytogenetics: 6 G3

Gene Summary: Required for insulin-stimulated glucose transport and glucose transporter SLC2A4/GLUT4 translocation from intracellular glucose storage vesicle (GSV) to the plasma membrane (PM) in adipocytes. Binds phospholipid membranes in a calcium-dependent manner and is necessary for the optimal membrane fusion between SLC2A4/GLUT4 GSV and the PM.[UniProtKB/Swiss-Prot Function]