

## Product datasheet for **MG204395**

### Tlcd2 (NM\_027249) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tlcd2 (NM\_027249) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tlcd2  
**Synonyms:** 2010305C02Rik; RP23-384C18.8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204395 representing NM\_027249  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCATCCTGGGGACTCCTTGTGGCTGGCGCTTCCTTCACGGCGTTTCGGGGACTGCACTGGGGGCTGC  
 AGCTGCTGCCACCCGAAATCTGTTGGGACCGCTGGATGTGGCGAACATTTTCGTTTCGCTGATACA  
 CAGCCTACTCTGGAGTAGGGGCGCTGGTCGGGCTGTGGCAGTTTCCTCAAATGGTCACCGACCAATT  
 AATGATCACCCACCGTGGGCACGGTCCTAGTAGCAGTGTGAGTGGTTATTTTCGCTGCAGATGGAGTTG  
 ATATGCTGTGGAACCAGACATTGGCCAGGCTGGACCTTCTGTGACCATTTGGCGGTAGTGAGCTG  
 CCTCAGCACCGCTGTTGTGCTGGCCACTATGTGGGCTTCTCTATGGTATCCCTGCTTTCGGAGCTGAAC  
 TCCATCTGTTTGCATCTACGGAAGCTACTGCTGCTCTCCATAAAGGCCCCATCCTTGGCCTTCAGAGTAA  
 GCAGTTGGGCCAGCCTGGCCACCCTGGTCTTCCGCCTTCTGCCTCTGGGATGGATGAGTCTGTGGTT  
 GTCCCGGCAGCACTACCAGCTGTCTTGTCTGGTTCTGCTTTGTGGCTGGGCTGGTCACCGTGGGC  
 AGCATAAGCATCTCCACAGGGATCCGAATCTGACCAAGGATATCTTGCAGTCTCAGCCCTACCCGTTTA  
 TCCTCATGCACAAGGAAACCAAGACACGTGAGCCTGTTGCCAGGAACACTTCCACTCTCAGTCTGAAAGG  
 CTCCAGATACCTGTACTCCACTGCTGCTGCTGCTTGGTGGTCATCTCATGGTACTGGCATCTCCAAAA  
 CGCTGCATGACCCCTTCAGTCTGGCCCTCAAGAGAGAAGACTAGAGCCTGGCAAAGTGGCACATGCTG  
 ATAATGCTAGCACTTGGGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204395 representing NM\_027249  
 Red=Cloning site Green=Tags(s)

MASWGLLVAGASFTAFRGLHWGLQLLPTPKSVDRWRMWRNIFVSLIHSLLSGVGALVGLWQFPQMVTDPI  
 NDHPPWARVLA VSVGYFAADGVDMLWNQTLAQAWDLLCHHLAVVSCSLTAVVSGHYVGFMSVSLLELN  
 SICLHLRKLKLLLSHKAPSLAFRVSSWASLATLVLFRLPLGWMSLWLSRQHYQLSALVLLCVAGLVTVG  
 SISISTGIRILTKDILQSQPYPFILMHKETKTREPVARTSTLSLKGSRYLYSTAAAAALGGHLMVLASPK  
 RCMTPSVLGLQERRLEPGKVAHADNASTWE

TRTRPLE - GFP Tag - V

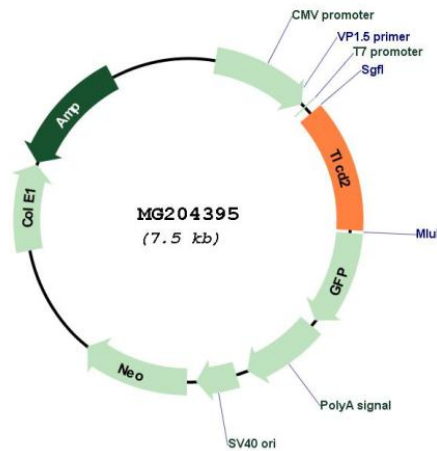
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_027249

ORF Size: 930 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_027249.3</a> , <a href="#">NP_081525.1</a>   |
| <b>RefSeq Size:</b>           | 1153 bp   |
| <b>RefSeq ORF:</b>            | 933 bp  |
| <b>Locus ID:</b>              | 380712  |
| <b>UniProt ID:</b>            | <a href="#">Q8VC26</a>  |
| <b>Cytogenetics:</b>          | 11 B5   |
| <b>Gene Summary:</b>          | Regulates the composition and fluidity of the plasma membrane (By similarity). Inhibits the incorporation of membrane-fluidizing phospholipids containing omega-3 long-chain polyunsaturated fatty acids (LCPUFA) and thereby promotes membrane rigidity (By similarity). Does not appear to have any effect on LCPUFA synthesis (By similarity).[UniProtKB/Swiss-Prot Function]  |