

## Product datasheet for **MG225119**

### Tsc2 (NM\_011647) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tsc2 (NM\_011647) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tsc2  
**Synonyms:** Nafld; Tcs2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG225119 representing NM\_011647  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAAACCAACAAGCAAAGATTCCGGCTTGAAGGAGAAGTTCAAGATACTGTTGGGATTGGAAACAT  
CGAGGCCAAATCCCAGGTGTGCAGAAGGCAAACAGACTGAGTTTATCATCACATCGGAAATCTTGAGAGA  
ACTGAGTGGTGAATGCGGCCTCAACAATCGCATCCGAATGATAGGGCAGATCTGTGATGTGGCAAAACT  
AAGAAGCTTGAGGAGCATGCAGTGGAGGCACTTTGGAAGGCTGTCTCAGACTTGCTACAGCCAGAGCGGC  
CACCAGAGGCCCGCATGCAGTTCTCACCTTATTGAAGGCCATTGTACAGGGACAGGGTATCGTTTGGG  
AGTTCTCAGAGCCCTCTTCTCAAAGTGATCAAGGACTACCCCTCCAATGAAGACCTCCATGAAAGGCTA  
GAAGTTTTTAAGGCCCTCACAGACAATGGGAGGCACATTACCTATTTGGAAGAAGAACTGGCAGAGTTTG  
TCCTGCAGTGGATGGATGTTGGCTTGTCCCTCAGAATTCCTTCTGGTACTTGTCAACCTGGTCAAGTTCAA  
CAGCTGTTACCTTGACGAATACATTGCATCAATGGTTCACATGATTTGTCTGCTATGCATCCGGACAGTG  
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AGAGCTGCCTCTGTTTATTACCCCTGTGCCGACCATCAATGTCAAGGAGCTGTGTGAGCCTTGCTG  
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 ATGAGAAGTCTATGGCCAGGCTGATGACAAGTGAAGAATCTCACTTGGAGCTCACAGAAACATGTCT  
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 CTTAGCTCCCTATCCCGAGTGGCTGTCTTCTGGGACCACAGACGGCGTGGCAGCGAAGCCCGA  
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 CTTGCTGCAGGGGTATCCCATGAGCGGGCCATCTCTCTGAGGGGCTCGGCTGCCGTGGACCTCT  
 CTTTCAACCCCTCACAGCCTTTGAGCAAGTCTAGCTCTTCTCCGGAGTTGCAGACCTTACAGGACATCCT  
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 AGGACTTCAAAGTGGCACCATTAAAGGGCCAGTTCAACTTTGTCCATGTGATCATCACACCCTGGACTA  
 CAAGTGAACCTATTGACCCTGCAGTGCAGGAAAGACATGGAAGGCTCGTGGACACCAGTGTGGCCAAG  
 ATTGTGTCTGACCACAACCTGTCTTTGTGGCCGACAGATGGCCCTGCATGCAAAATATGGCCTCACAGG

TACACCACAGCCGATCCAACCCCACTGACATCTATCCCTCCAAGTGGATCGCAAGACTCCGCCACATTAA  
 GCGTCTCCGCCAGAGGATCCGTGAAGAGGTGCACTATTCCAACCAAGCTTGCCTCTGATGCACCCTCCA  
 GCCCACACAAAGCCCCAGCTCAAGCCCCTGAGGCTACACCCACCTATGAAACAGGCCAGCGGAAGCGCC  
 TCATTTCTCCGTGGATGACTTCACAGAGTTTGTG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG225119 representing NM\_011647  
 Red=Cloning site Green=Tags(s)

MAKPTSKDSGLKEKFKILLGLGTSRPNPRCAEGKQTEFIITSEILRELSGECGLNRRMIGQICDVAKT  
 KKLEEHAVEALWKAUSDLLQPERPPEARHAVL TLLKAI VQGQDRLGVLRALFFKVIKDYP SNEDLHERL  
 EVFKAL TDNGRHITYLEEELAEFVLQWMDVGLSSEFLLVLVNLVKFN SCYLDEYIASMVHMICLLCIRTV  
 SSVDI EIVSLQVLD AVVCYNCLPAESLPLFIITLCRTINVKELCEPCWKL MRNLLGTHLGHSAIYNMCRIM  
 EDRSYMEDAPLLRGAVFFVGMALWGAHRLYSLKNSPTSVLPSFYEAMTCPNEVVSYEIVLSITRLIKKYR  
 KELQAVTWDILLDIERLLQQLQNLDSPELKTIVHDLLTTVEELCDQNEFHGSQERYEELVESYADQRPE  
 SSLLNLSIYRAQSIHPAKDGWIQNLQLLMERFFRNECRSAVRIKVL DVLSFVLLINRQFYEEELINSVVI  
 SQLSHIPEDKDHQVRKLATQLLVDLAEGCHTHFN SLLDII EKVMARSLSPPELEERDLAMHSASLEDV  
 KTA VLGLLVILQTKLYTLPASHATRVYESLISHIQLHYKHGYSLPIASSIRLQAFDFLLLRADSLHRLG  
 LPNKDGVVRFSPYCLCDCMELDRASEKKASGPLSPPTGPPSPVPMGPAVRLGYLPYSLLFRVLLQCLKQE  
 SDWKVLKLVLSRLPESLRYKVLIFTSPCSVDQLSSALCSMLSAPKTLERLRGTPEGFSRTDLHLAVVPVL  
 TALISYHNYLDKTRQREMYCYCLEQGLIYRCASQCVALAICSVEMPDII IKALPVLVVKLTHISATASMA  
 IPLLEFLSTLARLPHLYRNFAAEQYASVFAISL PYTNPSKFNQYIVCLAHHVIA MWFIRCRLPFRKDFVP  
 YITKGLRSNVLLSFD DTP EKDSFRARSTSLNERPKSLRIARAPKQGLNNSPPVKEFKESCAAEAFRCRSI  
 SVSEHVRSRIQTSLSASLGSADENMAQADDNLKNLHLELTETCLDMMARYVFSNFTAVPKRSPVGEF  
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 SRGARDRVRSMSGHGLRVGLDTSAPYSPGGSASLGPQT AVAAKPEKPPAGAQLPTAEKTNLAAYVPLL  
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 LAAGGPIIERAISSEGARPAVDLSFQPSQPLSKSSSPELQTLQDILGDLGDKIDIGRLSPEAKVRSQSG  
 ILDGEAATWSATGEE SRITVPPEGLPSSSPRSPGLRPRGYTISDSAPSRRGKRVERDNFKSRAAASSA  
 EKVPGINPSFVFLQLYHSPFFGDES NKPILLPNE SFERSVQLLDQIPSYDTHKIAVLYVGEQGSSSELAI  
 LSNEHGSYRYTEFLTGLGRLIELKDCQPKVYLGGLDVCGEDGQFTYCW HDDIMQAVFHIA TLMP TKD VD  
 KHRCDKKRHLGNDFVSI IYNDSGEDFKLGTIKGQFN FVHVIIITPLDYKCNLLTLQCRK DMEGLVDT SVAK  
 IVSDRNLSFVARQMALHANMASQVHHSRSNPTDIYPSKWIARLRHIKRLRQRIREEVHYSNPSLPLMHPP  
 AHTKAPAQAEATPTYETGQRKRLISSVDDFTEFV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



ACCN:	NM_011647
ORF Size:	5355 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. <a href="#">More info</a>
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:	<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>
RefSeq:	<a href="#">NM_011647.3</a> , <a href="#">NP_035777.2</a>
RefSeq Size:	6147 bp
RefSeq ORF:	5358 bp
Locus ID:	22084
Cytogenetics:	17 12.41 cM