

## Product datasheet for MR212075

### Tsc2 (NM\_001039363) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tsc2 (NM\_001039363) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tsc2  
**Synonyms:** Nafld; Tcs2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR212075 representing NM\_001039363  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

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CGAGGCCAAATCCAGGTGTGCAGAAGGCAAACAGACTGAGTTTATCATCACATCGGAAATCTTGAGAGA  
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AAGAAGCTTGAGGAGCATGCAGTGGAGGCACTTTGGAAGGCTGTCTCAGACTTGCTACAGCCAGAGCGGC  
CACCAGAGGCCCGGCATGCAGTTCTCACCTTATTGAAGGCCATTGTACAGGGACAGGGTGATCGTTTGGG  
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GAAGTTTTTAAGGCCCTCACAGACAATGGGAGGCACATTACCTATTTGGAAGAAGAACTGGCAGAGTTTG  
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CAGCTGTTACCTTGACGAATACATTGCATCAATGGTTCACATGATTTGTCTGCTATGCATCCGGACAGTG  
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AGAGCCTGCCTCTGTTTATTATCACCTGTGCCGACCATCAATGTCAAGGAGCTGTGTGAGCCTTGCTG  
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CGGGAAGCGCCTCATTTCTCCGTGGATGACTTACAGAGTTTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR212075 representing NM\_001039363  
Red=Cloning site Green=Tags(s)

MAKPTSKDSSLKEKFKILLGLGTSRPNPRCAEGKQTEFIITSEILRELSGECGLNNRIRMIGQICDVAKT  
KKLEEHAVEALWKAUSDLLQPERPPEARHAYLTLKAIYVQGGDRLGVLRALFFKVIKDYPSNEDLHERL  
EVFKALTDNGRHITYLEEELAEFVLQWMDVGLSSEFLLVNLVKFNCSYLDEYIASMVHMICLLCIRTV  
SSVDIEVSLQVLDAVVCYNCLPAESLPLFIITLCRTINVKELCEPCWKLNRLLGTHLGHSAIYNMCRIM  
EDRSYMEDAPLLRGAVFFVGMALWGAHRLYSLKNSPTSVLPSFYEAMTCPNEVVSVEIVLSITRLIKKYR  
KELQAVTWDILLDIERLLQQLQNLDSPELKTIVHDLLTVEELCDQNEFHGSQERYELVESYADQRPE  
SSLLNLISYRAQSIHPAKDGIQNLQLLMEFRNECRSAVRKVLDFVLLINRQFYEEELINSVVI  
SQLSHIPEDKDHQVRKLATQLLVDLAEGCHTHFNSLLDIEKVMARSLSPPELEERDLAMHSASLEDV  
KTAVLGLLVILQTKLYTLPASHATRVYESLISHIQLHYKHGYSLPIASSIRLQAFDFLLLRADSLHRLG  
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TALISYHNYLTKTRQREMVYCLEQGLIYRCASQCVALAICSVEMPDIIKALPVLVVKLTHISATASMA  
IPLLEFLSTLARLPHLYRNFAAEQYASVFAISLPYTNPSKFNQYIVCLAHHVIAWWFIRCRLPFRKDFVP  
YITKGLRSNVLVLSFDDTPEKDSFRARSTSLNERPKSRIQTSLSASLGSADENSMAQADDNLKHLHLELT  
ETCLDMMARYVFNFTAVPKRSPVGEFLLAGGRKTWLVGNKLVTVTTSVGTGTRSLGLDSDGLQGGSD  
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ALMAAERFKEHRDTALYKSLVPAAGTAKPPTLPRSNTDSAMVLEEGSPGETQVPVEPELEDFAALGT  
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DQIPSYDTHKIAVLVYGEQSSSELAISLNEHGSYRYTEFLTGLGRLIELKDCQDPKVVYLGGLDVCGEDG  
QFTYCWDDIMQAVFHIAITLMPKDVDKHRCDDKRLGNDFVSIYNDSGEDFKLGTIKQGFNFVHVIIIT  
PLDYKCNLLTLQCRKMEGLVDTSVAKIVSDRNLSFVARQMALHANMASQVHHSRNPDIYPSKWIARL  
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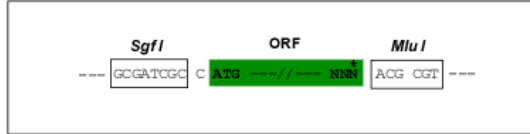
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

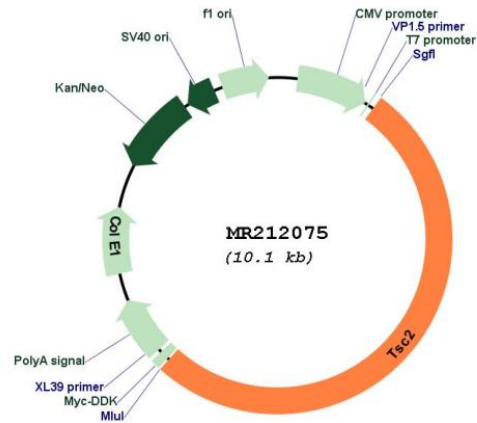
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001039363

**ORF Size:** 5226 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\\_001039363.2](#), [NP\\_001034452.1](#)

**RefSeq Size:** 6018 bp

**RefSeq ORF:** 5229 bp

**Locus ID:** 22084

**Cytogenetics:** 17 12.41 cM

**MW:** 194.5 kDa