

## Product datasheet for **MG217054**

### Tcn2 (NM\_001130458) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tcn2 (NM\_001130458) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tcn2  
**Synonyms:** AW208754; Tcn-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217054 representing NM\_001130458  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCTCCTGAAGGCGCTGCTCCTTTCTGGAGTCTTTGGGGCTCTTGCTGAATTCTGTGTAATAC  
 CACGGATAGACAGCCAGCTGGTAGAGAAGTTGGTCAACGTCTTTACCTGGATGGATCGGCTTTCCTC  
 AGAGCAGTTGAACCCAGCGTCTCGTTGGCCTGCGACTTCCAGCATGCAGGCTGGGACCAAGAGGAC  
 CTCTACCTTACAGCCTCAAGATCCATTACCAGCAGTGCCTCCTGCGGTCCACCTCCAGCGATGATAACA  
 GTAGTTGCCAGCCAAACTTTCCGGGGCAGCCTGGCGCTCTACCTGCTTCTCAGGGCCAACCTGCGA  
 ATCTTTCGGGAGCCGAAAGGGTGACAGGTTGATCTCACAGCTCAAGTGGTCTTGAGGATGAGAAGAAG  
 GCCATTGGGCACAATCATGAAGGCCACCCCAACCAACTATTACCAGTATGGCCTCAGCATCCTGGCAC  
 TGTGTGCCACCAGAAGCGGCTCCATGACAGCGTGGTGGCAAGCTCCTGTATGCTGTTGAACATGACTA  
 CTTTACCTACCAGGGCCACGTCTCTGTGGACACAGAAGCCATGGCCGGCTTGGCCCTCACCTGTTGGAG  
 CGATTCAATTTCAACTCTGATCTGAGACCACGAATCACCATGGCTATCGAGACAGTGCAGAGAAAAATCC  
 TGAAGTCCCAGGCCCTGAGGGTACTTTGGGAATATCTATAGCACCCCACTGGCACTACAGATGCTCAT  
 GACATCTCCTGCATCCGGGTAGGGCTGGGCACAGCGTGCATCAAGGCAGGGACATCCCTGCTGCTCAGC  
 CTACAGGATGGGCCTTCCAAAATCCTCTGATGATTTCCAGTGTCTACCCATCCCTGAACCACAAGACCT  
 ACTTGGATCTTATCTTCCAGACTGCCAGGCATCCAGGGTCAATGTTGGTGCCAGCTGTTGAGGACCTGT  
 CCACATCTCAGAAGTCATCAGCGTCACGCTGAAGGTGCCAGTGCCCTGTCAACATACGAACAGACATTT  
 TTTGCTTTGCTGGATCTTCTTGAAGATGTCCTGAAGTTGGCACAAGATGGCGGAGGATTCACGTATG  
 GGACCCAGGCCTCCTTGTGAGGCCCTACCTGACATCTGTACTAGGGAAAGATGCTGGGGACCGAGAATA  
 TTGGCAGCTCCTCGAGCCCTGACACACCCCTGCTGCAAGGCATTGCTGACTACAAACCCAGGACGGG  
 GAAACCATTGAGCTGCGGCTAGTTAGATGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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Protein Sequence: >MG217054 representing NM\_001130458  
 Red=Cloning site Green=Tags(s)

MELLKALLLLSGVFGALAEFCVIPRIDSQ LVEKLGQRLLP WMDRLSSEQLNPSV FVGLR LSSMQAGTKED  
 LYHSLKIH YQQCLLRSTSSDDNSSCQPKL SGGSLAL YLLALRANCEFFGSRKGDRLISQLKWFLEDEKK  
 AIGHNHGHPNTNYYQYGLSILALCVHQKRLHDSVVGKLLYAVEHDYFTYQGHVSV DTEAMAGLALTCLE  
 RFNFNSDLRPRITMAIETVREKILKSQAPEGYFGNIYSTPLALQMLMTSPASGVGLGTACIKAGTSLLLS  
 LQDGAFQNP LMISQLLPILNHKTYLDLIFPDCQASRVMLVPAVEDPVHISEVISVTLKVASALSPYEQTF  
 FVFAGSLEDV LKLAQDGGGFTYGTQASLSGPYLT SVLGKDAGDREYWQLLRAPDTPLLQGIADYKPDQG  
 ETIELRLVRW

TRTRPLE - GFP Tag - V

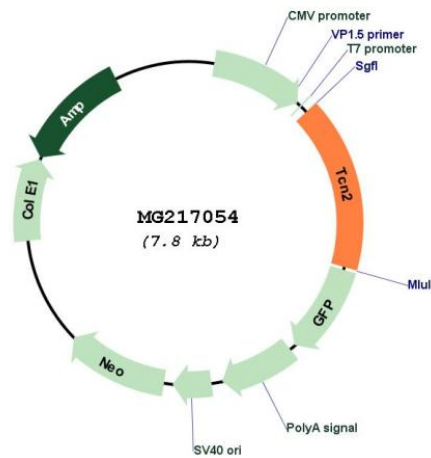
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001130458

<b>ORF Size:</b>	1290 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_001130458.1</a> , <a href="#">NP_001123930.1</a>
<b>RefSeq Size:</b>	2058 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	21452
<b>UniProt ID:</b>	<a href="#">O88968</a>
<b>Cytogenetics:</b>	11 2.76 cM
<b>Gene Summary:</b>	Primary vitamin B12-binding and transport protein. Delivers cobalamin to cells. [UniProtKB/Swiss-Prot Function]