

## Product datasheet for **MG206851**

### Tcn2 (NM\_015749) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tcn2 (NM_015749) 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:	>MG206851 representing NM_015749 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTCCTGAAGGCGCTGCTCCTTTCTGGAGTCTTTGGGGCTCTTGCTGAATTCTGTGTAATAC  
CACGGATAGACAGCCAGCTGGTAGAGAAGTTGGTCAACGTCTTTTACCTGGATGGATCGGCTTTCCTC  
AGAGCAGTTGAACCCAGCGTCTCGTTGGCCTGCGACTTCCAGCATGCAGGCTGGGACCAAGAGGAC  
CTCTACCTTACAGCCTCAAGATCCATTACCAGCAGTGCCTCCTGCGGTCCACCTCCAGCGATGATAACA  
GTAGTTGCCAGCCAACTTTCCGGGGCAGCCTGGCGCTCTACCTGCTTCTCAGGGCCAAGTCCGA  
ATCTTTCGGGAGCCGAAAGGGTGACAGGTTGATCTCACAGCTCAAGTGGTCTTGAGAGGATGAGAAGAAG  
GCCATTGGGCACAATCATGAAGGCCACCCCAACCAACTATTACCAGTATGGCCTCAGCATCCTGGCAC  
TGTGTGCCACCAGAAGCGGCTCCATGACAGCGTGGTGGCAAGCTCCTGTATGCTGTTGAACATGACTA  
CTTTACCTACCAGGGCCACGTCTCTGTGGACACAGAAGCCATGGCCGGCTTGCCCTCACCTGTTGGAG  
CGATTCAATTTCAACTCTGATCTGAGACCACGAATCACCATGGCTATCGAGACAGTGCAGAGAAAAATCC  
TGAAGTCCCAGGCCCTGAGGGTACTTTGGGAATATCTATAGCACCCCACTGGCACTACAGATGCTCAT  
GACATCTCCTGCATCCGGGTAGGGCTGGGCACAGCGTGCATCAAGGCAGGGACATCCCTGCTGCTCAGC  
CTACAGGATGGGCCTTCCAAAATCCTCTGATGATTTCCAGCTGCTACCCATCCCTGAACCACAAGACCT  
ACTTGGATCTTATCTTCCAGACTGCCAGGCATCCAGGGTATGTTGGTGCCAGCTGTTGAGGACCTGT  
CCACATCTCAGAAGTCATCAGCGTCACGCTGAAGGTCGCCAGTGCCTGTCAACATACGAACAGACATTT  
TTTGTCTTTGCTGGATCTTCTTGAAGATGTCCTGAAGTTGGCACAAGATGGCGGAGGATTACGTATG  
GGACCCAGGCCTCCTTGTGAGGCCCTACCTGACATCTGTAAGGAAAGATGCTGGGGACCGAGAATA  
TTGGCAGTCTCCGAGCCCTGACACACCCCTGCTGCAAGGCATTGCTGACTACAAACCCAGGACGGG  
GAAACCATTGAGCTGCGGCTAGTTAGATGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206851 representing NM\_015749  
 Red=Cloning site Green=Tags(s)

MELLKALLLLSGVFGALAEFCVIPRIDSQLEKLGQRLLPMDRLSSEQLNPSVVFVGLRLSSMQAGTKED  
 LYHLHLKIHYQQCLLRSTSSDDNSSCQPKLGGSLALYLLALRANCEFFGSRKGDRLISQLKWFLEDEKK  
 AIGHNHEGHPNTNYYQYGLSILALCVHQKRLHDSVVGKLLYAVEHDYFTYQGHVSDTEAMAGLALTCLE  
 RFNFNSDLRPRTMAIETVREKILKSQAPEGYFGNIYSTPLALQMLMTSPASGVGLGTACIKAGTSLLLS  
 LQDGAFAQNPLMISQLLPILNHKTYLDLIFPDCQASRVMLVPAVEDPVHISEVISVTLKVASALSPYEQTF  
 FVFAGSLEDVCLKLAQDGGGFTYGTQASLSGPYLTSVLGKDAGDREYWQLLRAPDTPLLQGIADYKPDQG  
 ETIELRLVRW

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015749

**ORF Size:** 1290 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\\_015749.3](#), [NP\\_056564.1](#)

**RefSeq Size:** 1878 bp

**RefSeq ORF:** 1293 bp

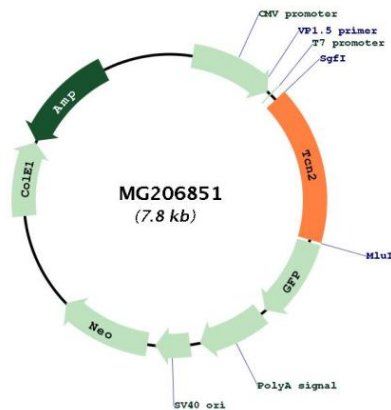
**Locus ID:** 21452

**UniProt ID:** [O88968](#)

**Cytogenetics:** 11 2.76 cM

**Gene Summary:** Primary vitamin B12-binding and transport protein. Delivers cobalamin to cells.  
[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG206851