

## Product datasheet for **MG227411**

### Tshz1 (NM\_001081300) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tshz1 (NM_001081300) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tshz1
Synonyms:	5730407I04Rik; D18Bwg1409e; mKIAA4206; Mtsh1; NY-CO-33; Sdccag33; teashirt1; Tsh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227411 representing NM_001081300 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGAGGAGGAAGCAGCAGGCCCGCGCTCGGCAGCTTACGTTCCCGAGGAAGAACTGAAGGCAG  
CCGAAATAGATGAGGAGCACGCGGAGGATGGTGGGCTGTCTCTGGACATTCAGGAGAGCGAATTTGCGTG  
CAATGAAGAGACAGAGATCAAAGAAGCCCAGAGCTATCAGAACTCCCTGTCAGCACTGCCACCAATCAA  
GACGCTGGCTACGGATCGCCCTCAGTGAGGGCAGTGACCAGCTGGCCATTTCAAAGCTCCTCCTCCA  
GAGAAGAGAAGGAGGAGTCGCAGTGTCCAGACAGTGTCTCTACCCCGAGGACAGCTTGGCAGAGATCAA  
AGCCGTGTATGCGAACTTATTCTCAGAGTCTGCTGGTCTAGCCTAGCATTGGATTTAAAAAAGTCCAAT  
TCTGCCACCAGCAACAACGATGCCAGCCAGAAGGAGAGTTCACACCTACCCCGACGCTCCTACTAGTA  
CCGCCAGCACCGCTGTACCACGGCCACCACGGCCATCACCAGCTGCAGCACCAGCACCAGCCATAGCAG  
CACCACCAGTAACAGCAGCAGCTCGGGGTATGACTGGCACCAGGCCCGCCCTGGCCAAGACGCTGCAGCAG  
ACGTGCTCCTACGGACTGCTGCCTGAGCCAGCCTGTTGAGCACCAGTGCAGCTCTACCGACAGAATAACA  
AGCTGTATGGTCCGTGTTACGGGGGCCAGCAAGTTCAGGTGCAAAAGACTGCAGCGCGGCTACGACAC  
GCTGGTGAAGTACGGTGCACATGAACGAGACAGGCCACTATCGAGATGACAACAGAGACAAGGACTCC  
GAGAAGACCAAGCGGTGGTCCAAGCCAGGAAGCGTTCCTGATGGAGATGGAGGGGAAGGAGGACGCC  
AGAAGGTGCTGAAGTGTATGTAAGTGCAGCACTCCTTCGAGTCTTGCAAGACCTCAGTGTCCACATGAT  
CAAAACAAGCATTACCAGAAAGTGCCTCTGAAGGAGCCCGTGCAGCCATCACCAAAAGTGGTCCCTTCC  
ACCAAGAAGCAGCAGTCCAGGACTGGCATCCCTTGTTCAGGAGCCACGGGCGTGGCCACTGAGG  
TTGCACTGAGTGAGTCAGCCAAGGACCAGAAAACGGCCAAACCCGTACGTGACTCCGAACAACCGTTACGG  
CTACCAGAATGGTGTAGTTACACGTGGCAGTTCGAGGCCCGCAAAGCCAGATACTCAAGTGCATGGAA  
TGTGGCAGCTCCCATGATACCTTGACGAGCTCACAGCCACATGATGGTCACTGGCCATTTCTAAAGG  
TGACAACCTCTGCTCCAAGAAAGGAAAGCAGCTGGTGTGGACCCCGTGGTGGAGGAGAAGATCCAGTC  
CATCCCGTGGCCCGGACCACTCACACCGGCTGCCTGCTCTAGCATCAAGAAGCAACCGACTCTCCT



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GCGGGCTCTGTAGCCTCAGAAGAGAAGAAGGAACCTGAGAAGGAGAAGGAAAAGGAGAAAGCCCCACCGG  
 CAGCTGGGGATGCAGAGAGAAAAATCAAAGAGGAGACTGAAGATGCCACTGAGAAGTTTGTAGCCACTGC  
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 ACAGCCGTCTTACGCCAGCAGCGTGAAGTCACTGTCTCCACAGAGCACAATGCCCTCTACACTCCCA  
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 AGCGCCCTCATGGATATCTCGGACATGGTGAAAAATCTCACAGGTCGCTGACTCCCAAGTCTCCACAC  
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 GCCTCCAGCCTTCGAGAGACAGCAGAAGGGAAATACATCATGTCAGACCTGGGCCCTCAGGAGCGGGTGC  
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 AGGACCTCTCAAGCTGCCACTCAGTACAGTACAGTCAAGAGCAGCAGAGTGTGCTCTCAAGCCCTCACAA  
 CAAGACTCTGGGCCGCTGGGCTCTCCGAGGAAGACTGGGCTCCACATTCCAATGCAAGCTCTGCAAC  
 CGGACTTTTTCGAGCAAGCAGCAGTAAAAGTGCACCTTGTAGTAAGACGCACGGCAAGTCGCCAGAGGACC  
 ACCTGATCTACGTGACAGAGCTGGAGAAGCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG227411 representing NM\_001081300

Red=Cloning site Green=Tags(s)

MPRRQQAAPRRSAAYVPEEELKAAEIDEEHAEDGGLSLDIQESEFACNEETEIKEAQSYQNSPVSTATNQ  
 DAGYGSPPFSEGSQDLAHFKSSSSREEKEESQCPDSVSYQPQSLAQIKAVYANLFSSECSWSSLALDLKSN  
 SATSNNDASQKESSTPTPTPTASTACTTATTAITSCSTSTSHSSTTSNSSSSGYDWHQAALAKTLQQ  
 TSSYGLLPEPSLFSTVQLYRQNNKLYGSVFTGASKFRCKDCSAAAYDTLVELTVHMNETGHYRDDNRDKDS  
 EKTKRWSKPRKRSLMEMEGKEDAQKVLKCMYCGHSFESLQDLVHMIKTKHYQKVPVLPVPAITKLVPS  
 TKKRALQDLASPCPEPTGVATEVALSESAKDQKTANPYVTPNNRYGYQNGASYTWQFEARKAQILKCMC  
 CGSSHDTLQQLTAHMMVTGHFLKVTTASAKKQQLVLDPVVEEKIQSIPLPPTTHRLPASSIKKQPDSP  
 AGSVASEEKEPEKEKEKEKAPPAAGDAERKIKEETEDATEKFEPALYQYLREEDLDDSPKGGVDILKS  
 LENTVSTAIKSAQNGAPSWGYPYIHAAYQLPGTVKPLQSAVQSVQIQPSYASSVKLSSTEHNALLHSP  
 GSLTPPHKSNVSAMEELVEKVTGKVSIIKKEERPEKEKSSPVKAI SPVAKENKDLPKTEETGSKPQKKG  
 SDSETGKAKKESTLDAHTPNGTEPLKAKVTNGCGHLGII TDHSPEPSFINPLSALQSIMNTHLGKVSQPV  
 SPSLDPLAMLKYISNSMLDKPVYPTTPAKQADRIDRYYYNSDQPIDLTKSKNKPLVSGVADAVSSPLRE  
 SALMDISDMVKNLTGRLTPKSSPTSTVSEKSDADGSSFEALDELSPVHKRKRGRQSNWNPQHLLILQAQF  
 ASSLRETAEGKYIMSDLGPQERVHISKFTGLSMTTISHWLANVKYQLRRTGGTKFLKNLDTGHPVFCND  
 CASQFRFASTYVSHLEHLGFSKDLKPLSQIQEQSVVSKALTNKTLGPLGSSEEDLGSTFQCKLCN  
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TRTRPLE – GFP Tag – V

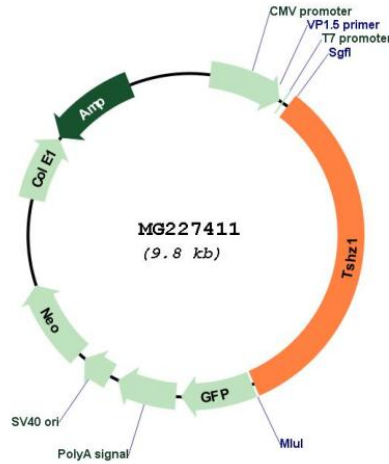
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001081300

ORF Size: 3252 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.

<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>	<u><a href="#">NM_001081300.2</a></u>
<b>RefSeq Size:</b>	5814 bp
<b>RefSeq ORF:</b>	3255 bp
<b>Locus ID:</b>	110796
<b>UniProt ID:</b>	<u><a href="#">Q5DTH5</a></u>
<b>Cytogenetics:</b>	18 57.53 cM
<b>Gene Summary:</b>	Probable transcriptional regulator involved in developmental processes. May act as a transcriptional repressor (Potential).[UniProtKB/Swiss-Prot Function]