

## Product datasheet for **MG216738**

### Tm7sf2 (NM\_028454) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tm7sf2 (NM_028454) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tm7sf2
Synonyms:	3110041O18Rik; ANG1; C14SR; Dhcr14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216738 representing NM_028454 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTTCTCGTGAGGCCTCCCAGGCCCACTGGAATTCGGGGGGCCGTTGGGCGTCGGGCTTTACTGA  
TCCTGCTGCCACCATGTTCCACCTGCTCCTGGCGGCTCGCTCGGGCCCGGCGCCCTCTGGCCCT  
ACCGGCCTATCTGCCTGGGCTGGAGGAGCTGTGGAGCCCATGGGCTCTGCTGCTATTGTTTCATCTGGCTC  
GGCCTGCAGGTGGCGCTCTATTTGCTGCCTGCACGAAGGTGGCCGAAGGCTGGAAGTGAAGGACAAGA  
GTCGCCTGCGCTACCCTATTAATGGCTTCCAGGCTCTGGTGTAAACAGCCCTGTTGATGGGCTGGGGT  
GTCAGTGGGCTGCCCTGGGGCACTCCCTGGAATGCTCCTGCCCTTGGCCTTTGCGACCACTCTCACC  
AGCTTTATCTTACGCCTCCTCCTATGCGAAGGCTTTGGTAGCTCCTGCCTCAGCCCTGGCTCCTGGGG  
GAAACTCAGGAAATTCATGTATGACTTCTTTCTTGGACGGGAGCTGAACCCCTCGCTCGGTTCTTTGA  
CTTCAAATATTTCTGTGAGCTGAGACCTGGCCTCATTGGCTGGGTTTTTCATTAACCTGGCCCTGCTGATG  
CAGGAGGCAGAGCTTCGGGGGAGTCCTCCCTGGCTATGTGGCTGGTCAATGGCTTCCAGTTGCTGTATG  
TGGGTGATGCCCTCTGGTATGAGGAGTCTGTCCCTACCACCATGGACATAATACATGATGGTTTTGGCTT  
CATGCTGGTCTTTGGAGATCTAGCTTGGGTACCATTACCTACAGCCTGCAGGCCAGTTCTCTGTTGTAC  
CATCCACAGCCTCTGGGTTGCCATGGCCTTGTCTCATCTGCCTCCTTAAGGTTATTGGTTACTACATCT  
TCCGAGGGGCAACTCCCAGAAAAACACATTACAGGAAGAATCCTTCTGACCCAGCGTGGCTGGTCTTGA  
GACCATCCCGACTGCCACGGGGAGGAGCTGCTGGTGTCTGGGTGGTGGGTATGGTTCGACACCCCAAC  
TACCTGGGAGATCTCATCATGGCTCTGGCATGGTCTTTGCCCTGTGGGCTATCCCATCTGCTGCCCTACT  
TCTACGCTCTACTTCACTGCACTGCTGGTGCACCGGAGGCCAGAGATGAGCAGCAGTGCCTCCAAAA  
GTATGGCCGTGCCTGGCAGGAGTACTGCAAGCGTGTGCCCTTACCGAATCATACCCATGTCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216738 representing NM\_028454  
 Red=Cloning site Green=Tags(s)

MTSREASQAPLEFGGGLGVAALLILLPATMFHLLLAARSGPARLLALPAYLPGLEELWSPWALLLLFIWL  
 GLQVALYLLPARKVAEGLELKDKSRLRYPINGFQALVLTALLMGLGVSGLPLGALPGMLLPLAFATLTLT  
 SFIFSLLLYAKALVAPASALAPGGNSGNSMYDFFLGRELNPRLGSDFKYFCELRPLIGWVFINLALLM  
 QEAE LRGSPSLAMWLVNGFQLLYVGDALWYEE SVLTTMDI IHDGFGFMLVFGDLAWVPFTYSLQAQFLLY  
 HPQPLGLPMALLICLLKVI GYYIFRGANSQKNTFRKNPSDPSVAGLETIPTATGRQLLVSGWGMVRHPN  
 YLGD LIMALAWSLPCGLSHLLPYFYVLYFTALLVHREARDEQQCLQKYGRAWQEYCKRVYPYRIIPVYY

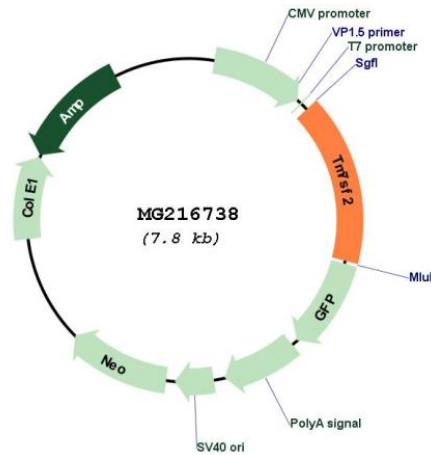
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_028454

<b>ORF Size:</b>	1254 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_028454.2</a> , <a href="#">NP_082730.2</a>
<b>RefSeq Size:</b>	1496 bp
<b>RefSeq ORF:</b>	1257 bp
<b>Locus ID:</b>	73166
<b>UniProt ID:</b>	<a href="#">Q71KT5</a>
<b>Cytogenetics:</b>	19 A
<b>Gene Summary:</b>	Catalyzes the reduction of the C14-unsaturated bond of lanosterol, as part of the metabolic pathway leading to cholesterol biosynthesis.[UniProtKB/Swiss-Prot Function]