

Product datasheet for **MG205843**

Tm6sf2 (NM_181540) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tm6sf2 (NM_181540) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tm6sf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205843 representing NM_181540 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATCCCGCCCTAGCCGGCAGGACTGTGGCGATGTCATTCTGCGCCCTGCCAGTGTCTACCTAC
TCAATCAAGTTTCGGCGTTCTCACAGCCCTGTTTGTGGTGTGACGAGTGTCTGATACTGGGTCTGCT
CTTCTGGCAGTCTATAGCCTATCTCATGGGGAGATCACCTACGACCCTCTATGTCTTTGTGATC
TTCTCCTCACCTCGGTGGTGGACCTTGTATTGCACTCCAAGAAGATGGCTACATGATGGGCTTCATGG
ATTTCTACACCAAGGAGGTGAGCCCTACCTACGCACAGCATGGCATCTTCTGCTACTGGGATGG
TACTGTGCACTACCTGCTCTATCTGACAATGGCTGGTGCATCCGCAAAAGGAAAAGGTACCGAAACCTT
GGGCTCTACTGGCTGGGATCCTTCGCCATGAGCATCCTGGTGTCTCCCGGAAACATCCTTGGTAAAT
ACAGTTCAGAGATGAGACCTACCTTCTCCTCGCCATCCTGTACATGCTGGTCCCATGCTGGGCCGGTGT
GAGGATCTTCAACCAGTCCCAGGCACCAACCTCCTATACCCCTGACATGGTACAGGAAGAGCAGAAGAAA
AGTCTCCTCCAGCGTCCGGCTGACCTGGCACTCATAGTATACCTCATCTTGCAGCGCTCTTCACTGTCT
TCCGGGTCTGGTGGTACTTGACTGCCCCACAGATGCCTGCTTCACTATATTTACCAATATGAGCCATA
CCTTCGGGACCCTGTGGCTACCCAAAGTTCAGATGCTGATGTATTTGTTCTATGCTCTACCATTCTAC
TGCTGGCTGCCTACGCCCTTGCTTCCCTGGCTGCTCCTGGCTGCCGACTGGGCCTTGGTATTTGCTG
GAGCCATTGGCCAGGCGAGTTCTCACACATGGGTGCCTCCATGCACATGCGCACACCCCTCACCTACCG
CGTGCCAGAGGACACCTGGGCTACCTTCTTTCTGAGCAACCTGCTATTGGCACTGGGTCCCCACCTGCTG
GCTTTCGCTGCCTGTGGCGGCCGCTTCTTCTTGCATGCAGCGCTGCCATCTTCGCCACAGGACCAAG
ACAAGAAGCAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205843 representing NM_181540
Red=Cloning site Green=Tags(s)

MDIPPLAGRTVAMSFCALPVSYLLNQVSAFSQPLFVVLTSAIILGLLFLAVYSLSHGEITYDPLYAVFVI
 FSFTSVVDLVIALQEDGYMMGFMDFYTKEGEPYLRTAHGIFICYWDGTVHYLLYLTMAGAIRKRRYRNL
 GLYWLGSFAMSILVFLPGNILGKYSSEMRPTFFLAILYMLVPCWAGVRIFNQSQAPTSYTPDMVQEEQKK
 SLLQRPADLALIVYLIFAAFLTIVFRGLVVLDCPTDACFIYIYQYEPYLRDPVAYPKLQMLMYLFYALPFY
 CLAAAYALAFPGCSWLPDWALVFAAIGQAQF SHMGASMHMRTPF TYRVPEDTWATFFLSNLLLALGPHELL
 AFRCLWRPAFFLHAALPSSPDQDKKQQ

TRTRPLE - GFP Tag - V

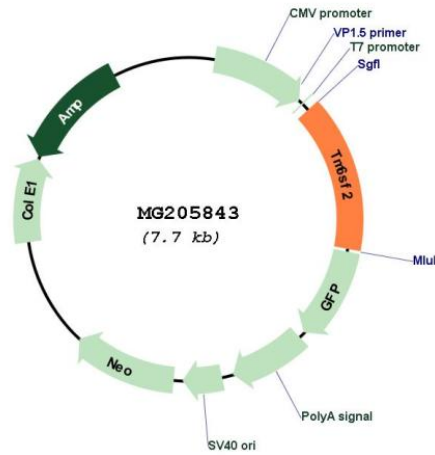
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_181540

ORF Size:	1128 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:	<ol style="list-style-type: none">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_181540.2 , NP_853518.1
RefSeq Size:	1419 bp
RefSeq ORF:	1131 bp
Locus ID:	107770
UniProt ID:	Q8R1J1
Cytogenetics:	8 B3.3
Gene Summary:	Regulator of liver fat metabolism influencing triglyceride secretion and hepatic lipid droplet content. May function as sterol isomerase.[UniProtKB/Swiss-Prot Function]