

Product datasheet for **RG237924**

TM7SF2 (NM_001277233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TM7SF2 (NM_001277233) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TM7SF2
Synonyms:	ANG1; C14SR; DHCR14A; NET47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237924 representing NM_001277233. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCCCACTCAGGGCCCCGGGCCCGCTGGAATTCGGAGGGCCCTGGGCGCCGGCTCTGCTA
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AAGAGTCGCTGCGCTATCCTATTAACGGCTTCCAGGCCCTGGTCTGACAGCCCTGTTGGTGGGGCTG
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TACTTCTACCTCCTACTTACCCGCGCTGCTGGTGCACCGTGAGGCCCGGGATGAGCGGCAGTGCCTG
CAGAAGTACGGCCTGGCCTGGCAGGAGTACTGCCGGCGTGTGCCCTTACCGCATCATGCCCTACATCTAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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Protein Sequence: >Peptide sequence encoded by RG237924
 Blue=ORF Red=Cloning site Green=Tag(s)

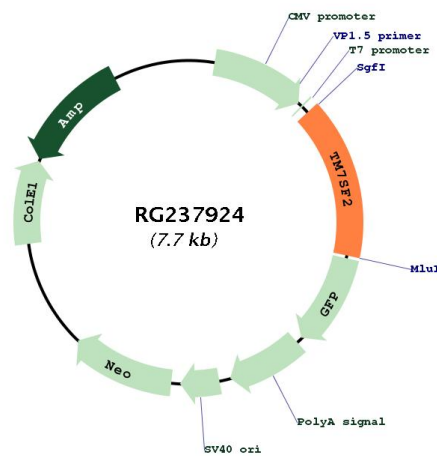
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 LGLQAALYLLPARKVAEGQELKDKSRLRYPIINGFQALVLTALLVGLGMSAGLPLGALPEMLLPLAFVAT
 LTAFIFSLFLYMKAQVAPVSALAPGGNSGNIYDFFLGRELNPRICFFDFKYFCELRPGLIGWVLINLA
 LLMKEAELRGSPSLAMWLVNGFQLLYVGDALWHEEAVLTTMDITHDGFGLAFGDMAWVPFTYSLQAQ
 FLLHHPQPLGLPMASVICLINGLETISTATGRKLLVSGWWMVRHPNYLGDLMALAWSLPCGVSHLLP
 YFYLLYFTALLVHREARDERQCLQKYGLAWQEYCRVPYRIMPYIY
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001277233
ORF Size:	1173 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).
RefSeq:	NM_001277233.1 , NP_001264162.1
RefSeq Size:	1533 bp
RefSeq ORF:	1176 bp
Locus ID:	7108
UniProt ID:	O76062
Cytogenetics:	11q13.1
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
MW:	43.8 kDa
Gene Summary:	Catalyzes the reduction of the C14-unsaturated bond of lanosterol, as part of the metabolic pathway leading to cholesterol biosynthesis.[UniProtKB/Swiss-Prot Function]