

Product datasheet for RC237924

TM7SF2 (NM_001277233) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: TM7SF2 (NM_001277233) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: TM7SF2
 Synonyms: ANG1; C14SR; DHCR14A; NET47
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RC237924 representing NM_001277233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCCCACTCAGGGCCCCGGGCCCGCTGGAATTCGGAGGGCCCTGGGCGCCGGCTCTGCTAC
 TGCTGTGCCCGCACCATGTTCCACCTGCTCCTGGCGGCCCGTTCGGGCCCCGCGCCTGCTGGGTCC
 ACCCGCTCCCTGCCCGGCTGGAGGTGCTGTGGAGCCACGGGCGCTGCTGCTGTGGCTCGCCTGGCTC
 GGCTGCAGGCGCGCTCTACCTACTGCCGGCGCAAGGTGGCCGAGGGGCAGGAATTGAAGGACAAGA
 GTCGCCTGCGCTATCCTATTAACGGCTTCCAGGCCCTGGTGTGACAGCCCTGTTGGTGGGGCTGGGGAT
 GTCAGCGGGGCTGCCTCTGGGGCGCTCCCGAAATGCTCCTGCCCTTGGCGTTTGTGCCACCCTCACC
 GCTTTCATCTTCAGCCTCTTCTCTACATGAAGGCGCAGGTAGCCCCAGTTTCGGCCCTGGCACCTGGGG
 GGAATCAGGCAATCCGATTTACGACTTTTTCTGGGACGAGAGCTCAACCTCGTATCTGTTTCTCGA
 CTTCAAATATTTCTGTGAATGCGACCCGGCCTCATCGGCTGGTCCCTCATCAACCTGGCCCTGTTGATG
 AAGGAGGCAGAGCTTCGAGGCAGTCCCTCACTGGCCATGTGGCTGGTCAATGGCTCCAGTTGCTCTACG
 TGGGTGATGCCCTCTGGCACGAGGAGGCCCTCACCACCATGGATATCACACATGACGGGTTTGGCTT
 CATGTGGCGTTTGGGGACATGGCTGGGTGCCCTTACCTACAGCCTGCAGGCCAGTTCTCTGTGCAC
 CACCCGACGCCCTGGGGTTGCCATGGCCTCTGTCTATCTGCCTCATCAATGGGCTTGAGACCATCTCTA
 CAGCCACAGGGCGAAACTGCTGGTGTCTGGTGGTGGGGTATGGTCCGCCATCCCAACTATCTGGAGA
 CCTCATATGGCTCTGGCTTGGTCTTGCCTGCGGGGTGTACACCTGCTGCCCTACTTCTACCTCCTC
 TACTTCACCGCTGCTGGTGCACCGTGAAGGCCGGGATGAGCGGCAGTGCCTGCAGAAGTACGGCCTGG
 CCTGGCAGGAGTACTGCCGGCTGTGCCTACCGCATCATGCCCTACATCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237924 representing NM_001277233
 Red=Cloning site Green=Tags(s)

MAPTQGPRAPELFGGPLGAAALLLLPATMFHLLLAARSGPARLLGPPASLPGLEVLWSPRALLLWLAWL
 GLQAALYLLPARKVAEGQELKDKSRLRYPINGFQALVLTALLVGLGMSAGLPLGALPEMLLPLAFVATLT
 AFIFSLFLYMKAQVAPVSALAPGGNSGNPIYDFFLGRELNPRICFFDFKYFCELRPLIGVWLINLALLM
 KEAELRGSPSLAMWLVNGFQLLYVGDALWHEEAVLTTMDITHDGFGLAFGDMAWVPFTYSLQAQFLHL
 HPQPLGLPMASVICLINGLETISTATGRKLLVSGWWGMVRHPNYLGDLMALAWSLPCGVSHLLPYFYLL
 YFTALLVHREARDERQCLQKYGLAWQEYCRRVYPYRIMPYIY

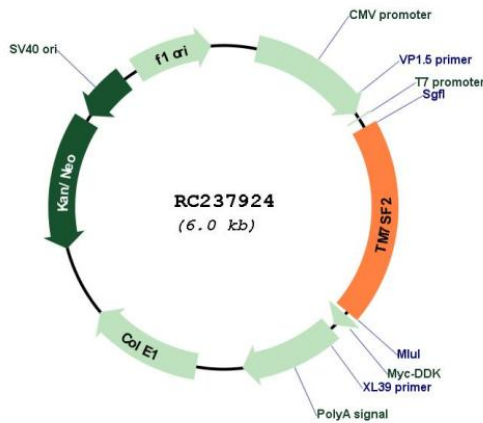
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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).
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_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]