OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC202116

TM7SF2 (NM_003273) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TM7SF2 (NM_003273) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TM7SF2
Synonyms:	ANG1; C14SR; DHCR14A; NET47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202116 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCCCACTCAGGGCCCCCGGGCCCCGCTGGAATTCGGAGGGCCCCTGGGCGCCGCGGCTCTGCTAC
TGCTGCTGCCCGCCACCATGTTCCACCTGCTCCTGGCGGCCCGTTCGGGCCCCGCGCGCCTGCTGGGTCC
ACCCGCGTCCCTGCCCGGGCTGGAGGTGCTGTGGAGCCCACGGGCGCTGCTGCTGTGGCTCGCCTGGCTC
GGCCTGCAGGCGGCGCTCTACCTACTGCCGGCGCGCAAGGTGGCCGAGGGGCAGGAATTGAAGGACAAGA
GTCGCCTGCGCTATCCTATTAACGGCTTCCAGGCCCTGGTGCTGACAGCCCTGTTGGTGGGGCTGGGGAT
GTCAGCGGGGCTGCCTCTGGGGGCGCTCCCGGAAATGCTCCTGCCCTTGGCGTTTGTCGCCACCCTCACC
GCTTTCATCTTCAGCCTTTTTCTCTACATGAAGGCGCAGGTAGCCCCAGTTTCGGCCCTGGCACCTGGGG
GGAACTCAGGCAATCCGATTTACGACTTTTTTCTGGGACGAGAGCTCAACCCTCGTATCTGTTTCTTCGA
CTTCAAATATTTCTGTGAACTGCGACCCGGCCTCATCGGCTGGGTCCTCATCAACCTGGCCCTGTTGATG
AAGGAGGCAGAGCTTCGAGGCAGTCCCTCACTGGCCATGTGGCTGGTCAATGGCTTCCAGTTGCTCTACG
TGGGTGATGCCCTCTGGCACGAGGAGGCCGTCCTCACCACCATGGATATCACACATGACGGGTTTGGCTT
CATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTCACCTACAGCCTGCAGGCCCAGTTCCTGCTGCAC
CACCCGCAGCCCCTGGGGTTGCCCATGGCCTCTGTCATCTGCCTCATCAATGCTACTGGTTACTACATCT
TCCGTGGGGCGAATTCCCAGAAAAACACTTTCCGAAAGAATCCTTCTGACCCCAGAGTGGCTGGGCTTGA
GACCATCTCTACAGCCACAGGGCGGAAACTGCTGGTGTCTGGGTGGTGGGGTATGGTCCGCCATCCCAAC
TATCTTGGAGACCTCATCATGGCTCTGGCTTGGTCCTTGCCCTGCGGGGTGTCACACCTGCTGCCCTACT
TCTACCTCCTCTACTTCACCGCGCTGCTGGTGCACCGTGAGGCCCGGGATGAGCGGCAGTGCCTGCAGAA
GTACGGCCTGGCCTGGCAGGAGTACTGCCGGCGTGTGCCTTACCGCATCATGCCCTACATCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC202116 protein sequence
Red=Cloning site Green=Tags(s)

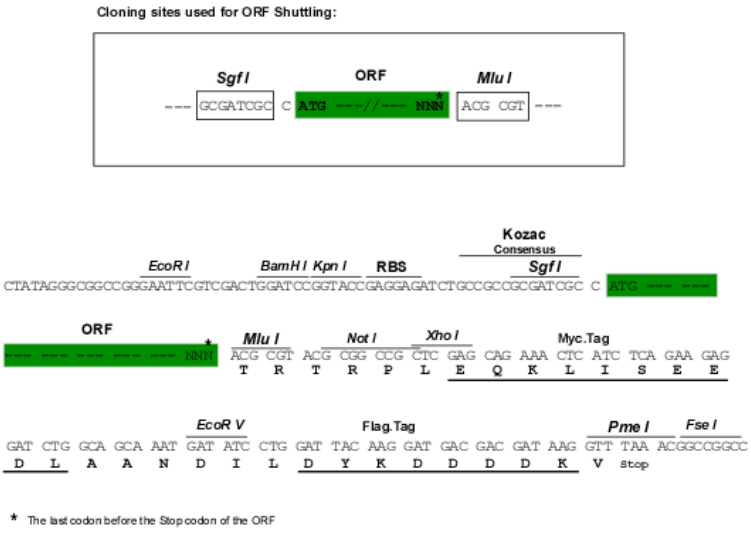
MAPTQGPRAPLEFGGPLGAAALLLLLPATMFHLLLAARSGPARLLGPPASLPGLEVLWSPRALLLWLAWL
GLQAALYLLPARKVAEGQELKDKSRLRYPINGFQALVLTALLVGLGMSAGLPLGALPEMLLPLAFVATLT
AFIFSLFLYMKAQVAPVSALAPGGNSGNPIYDFFLGRELNPRICFFDFKYFCELRPGLIGWVLINLALLM
KEAELRGSPSLAMWLVNGFQLLYVGDALWHEEAVLTTMDITHDGFGFMLAFGDMAWVPFTYSLQAQFLLH
HPQPLGLPMASVICLINATGYYIFRGANSQKNTFRKNPSDPRVAGLETISTATGRKLLVSGWWGMVRHPN
YLGDLIMALAWSLPCGVSHLLPYFYLLYFTALLVHREARDERQCLQKYGLAWQEYCRRVPYRIMPYIY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6303_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003273

ORF Size: 1254 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

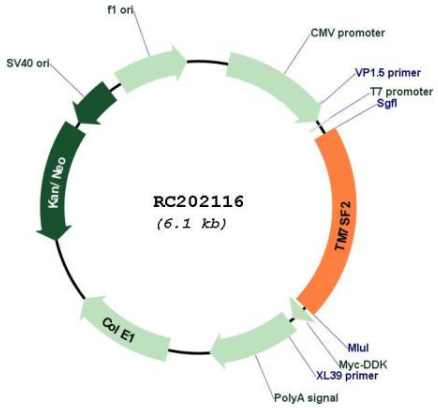
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

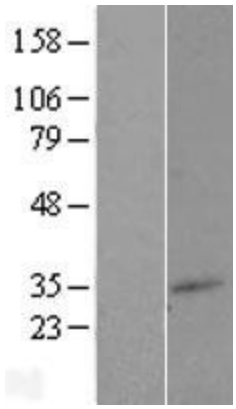
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_003273.6
RefSeq Size:	1614 bp
RefSeq ORF:	1257 bp
Locus ID:	7108
UniProt ID:	O76062
Cytogenetics:	11q13.1
Domains:	ERG4_ERG24
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
MW:	46.4 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]

Product images:



Circular map for RC202116



Western blot validation of overexpression lysate (Cat# [LY418795]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202116 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).