

## Product datasheet for MR216738

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tm7sf2 (NM\_028454) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tm7sf2  
**Synonyms:** 3110041O18Rik; ANG1; C14SR; Dhcr14  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR216738 representing NM\_028454  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACTTCTCGTGAGGCCTCCCAGGCCCACTGGAATTCGGGGGGCCGTTGGGCGTCGCGGCTTTACTGA  
 TCCTGCTGCCTGCCACCATGTTCCACCTGCTCCTGGCGGCTCGCTCGGGCCCGGCGCCCTCTGGCCCT  
 ACCGGCCTATCTGCCTGGGCTGGAGGAGCTGTGGAGCCATGGGCTCTGCTGCTATTGTTTCATCTGGCTC  
 GGCCTGCAGGTGGCGCTCTATTTGCTGCCTGCACGAAGGTGGCCGAAGGCTGGAAGTGAAGGACAAGA  
 GTCGCCTGCGCTACCCTATTAATGGCTTCCAGGCTCTGGTGTAAACAGCCCTGTTGATGGGCTGGGGT  
 GTCAGTGGGCTGCCCTGGGGCACTCCCTGGAATGCTCCTGCCCTTGGCCTTTGCGACCACTCTCACC  
 AGCTTTATCTTACGCCTCCTCCTATGCGAAGGCTTTGGTAGCTCCTGCCTCAGCCCTGGCTCCTGGGG  
 GAAACTCAGGAAATTCATGTATGACTTCTTTCTTGGACGGGAGCTGAACCTCGCCTCGGTTCTTTGA  
 CTTCAAATATTTCTGTGAGCTGAGACCTGGCCTCATTGGCTGGGTTTTTCATTAACCTGGCCCTGCTGATG  
 CAGGAGGCAGAGCTTCGGGGGAGTCCTCCCTGGCTATGTGGCTGGTCAATGGCTTCCAGTTGCTGTATG  
 TGGGTGATGCCCTCTGGTATGAGGAGTCTGTCCCTACCACCATGGACATAATACATGATGGTTTTGGCTT  
 CATGCTGGTCTTTGGAGATCTAGCTTGGGTACCATTACCTACAGCCTGCAGGCCAGTTCTGTGTGAC  
 CATCCACAGCCTCTGGGTTGCCATGGCCTTGTCTCATCTGCCTCCTTAAGGTTATTGGTTACTACATCT  
 TCCGAGGGGCAACTCCCAGAAAAACACATTAGGAAGAATCCTTCTGACCCAGCGTGGCTGGTCTTGA  
 GACCATCCCGACTGCCACGGGGAGGAGCTGCTGGTGTCTGGGTGGTGGGATGGTTCGACACCCCAAC  
 TACCTGGGAGATCTCATCATGGCTCTGGCATGGTCTTTGCCCTGTGGGCTATCCCATCTGCTGCCCTACT  
 TCTACGCTCTACTTCACTGCACTGCTGGTGCACCGGAGGCCAGAGATGAGCAGCAGTGCCTCCAAAA  
 GTATGGCCGTGCCTGGCAGGAGTACTGCAAGCGTGTGCCCTTACCGAATCATACCCATGTCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR216738 representing NM\_028454  
Red=Cloning site Green=Tags(s)

MTSREASQAPLEFGGGLGVAALLILLPATMFHLLLAARSGPARLLALPAYLPGLEELWSPWALLLLFIWL  
 GLQVALYLLPARKVAEGLELEKDKSRLRYPINGFQALVL TALLMGLGVSVGLPLGALPGMLLPLAFATTLT  
 SFIFSLLLYAKALVAPASALAPGGNSGNSMYDFFLGRELNPRLGSDFKYFCELRPGLIGWVFINLALLM  
 QEAE LRGSPLAMWL VNGFQLL YVGDALWYEE SVLTTMDI IHDGFGFML VFGDLAWVPFTYSLQAQFLLY  
 HPQPLGLPMALLI CLLVIGYYIFRGANSQKNTFRKNPSPDSVAGLETIPTATGRQLLVSGWGMVRHPN  
 YLGD LIMALAWSLPCGLSHLLPYFYVLYFTALL VHREARDEQQCLQKYGRAWQEYCKRVYRIIPVYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9028\\_e05.zip](https://cdn.origene.com/chromatograms/mm9028_e05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_028454

**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\\_028454.2](#), [NP\\_082730.2](#)

**RefSeq Size:** 1496 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 73166

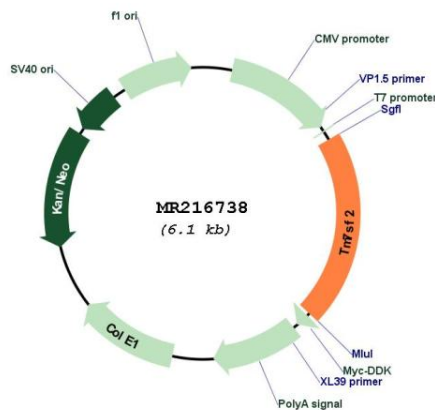
**UniProt ID:** [Q71KT5](#)

**Cytogenetics:** 19 A

**MW:** 47 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 MR216738