

## Product datasheet for **SC117114**

### TM9SF2 (NM\_004800) Human Untagged Clone

#### Product data:

|                    |                        |
|--------------------|------------------------|
| Product Type:      | Expression Plasmids    |
| Tag:               | Tag Free               |
| Symbol:            | TM9SF2                 |
| Synonyms:          | P76                    |
| Mammalian Cell     | None                   |
| Selection:         |                        |
| Vector:            | <u>pCMV6-XL5</u>       |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004800, the custom clone sequence may differ by one or more nucleotides

```
ATGAGCGCGAGGCTGCCGGTGTGTCTCCACCTCGGTGGCCGCGGCTGTTGCTGCTGCTCGTCTCTGC
TGGGGGCGGTTCTTGGCCCGCGCGGAGCGGCGCTTTCTACCTGCCGGGCTGGCGCCGCTCAACTTCTG
CGACGAAGAAAAAGAGCGAGTGCAAGGCCGAAATAGAACTATTTGTGAACAGACTTGATTCAGTG
GAATCAGTTCTTCTTATGAATACACAGCGTTTGATTTTGGCAAGCATCAGAAGGAAAGCGCCCATCTG
AAAATCTTGGTCAGGTACTATTCGGGGAAGAATTGAACCTTCACCATATAAGTTTACGTTTAATAAGAA
GGAGACCTGTAAGCTTGTGTACAAAAACATACCATACAGAGAAAGCTGAAGACAAACAAAGTTAGAA
TTCTTGAAGAAAGCATGTTATTGAATTATCAACATCACTGGATTGTGGATAATATGCCTGTAACGTGGT
GTTACGATGTTGAAGATGGTCAGAGGTTCTGTAATCCTGGATTTCCTATTGGCTGTTACATTACAGATAA
AGGCCATGCAAAAGATGCCTGTGTTATTAGTTCAGATTTCCATGAAAGAGATACATTTTACATCTTCAAC
CATGTTGACATCAAAATATACTATCATGTTGTTGAAACTGGGTCCATGGGAGCAAGATTAGTGGCTGCTA
AACTTGAACCGAAAGCTTCAACATACCCATATAGATAAACCCAGACTGCTCAGGGCCCCCATGGACAT
AAGTAACAAGGCTTCTGGGGAGATAAAAAATGCCTATACTTACTCTGTTAGCTTCGAGGAAGATGATAAG
ATCAGATGGGCGCTAGATGGGACTATATCTGGAGTCTATGCCTCATACCCACATTCAGTGGTTTAGCA
TTATGAATTCCTGGTCATTGTTCTCTTCTTATCTGGAATGGTAGCTATGATTATGTTACGGACACTGCA
CAAAGATATTGCTAGATATAATCAGATGGACTCTACGGAAGATGCCAGGAAGAATTTGGCTGGAACCTT
GTTTCATGGTGATATATTCGTCCTCCAAGAAAAGGGATGCTGCTATCAGTCTTTCTAGGATCCGGGACAC
AGATTTTAATTATGACCTTTGTGACTCTATTTTTCGCTTGCCTGGGATTTTGTACCTGCCAACCGAGG
AGCGCTGATGACGTGTGCTGTGGTCTGTGGTCTGCTGGGCACCCCTGCAGGCTATGTTGCTGCCAGA
TTCTATAAGTCCTTTGGAGGTGAGAAGTGGAAAACAAATGTTTTATTAACATCATTTCTTTGCTGGGA
TTGTATTTGCTGACTTCTTTATAATGAATCTGATCCTCTGGGGAGAAGGATCTTCAGCAGCTATTCTTT
TGGGACACTGGTTGCCATATTGGCCCTTTGGTTCTGCATATCTGTGCCTCTGACGTTTATTGGTGCATAC
TTTGGTTTTAAGAAGATGCCATTGAACACCCAGTTCGAACCAATCAGATTCCACGTCAGATTCTGAAC
AGTCGTTCTACACGAAGCCCTTGCTGGTATTATCATGGGAGGGATTTGCCCTTTGGCTGCATCTTTAT
ACAACTTTTCTTCAATCTGAATAGTATTTGGTCACACCAGATGTATTACATGTTTGGCTTCCATTCTG
GTGTTTATCATTTTGGTTATTACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTGCAG
AGGATTATCATTGGCAATGGCGTTCATTCTTACGAGTGGCTTTACTGCAGTTTATTTCTTAATCTATGC
AGTACACTACTTCTTTTCAAACTGCAGATCACGGGAACAGCAAGCACAATTCTGTACTTTGGTTATACC
ATGATAATGGTTTTGATCTTCTTTCTTTTACAGGAACAATTGGCTTCTTGCATGCTTTTGGTTTGTA
CCAAAATATACAGTGTGGTGAAGTTGACTGA
```

**5' Read Nucleotide  
Sequence:**

>OriGene 5' read for NM\_004800 unedited

```
GTTTTGGATTGTATCCGACTTACTATAGGCGGCCGCGCAATTCGCACGAGGGCTCTCCC
AGCAACCACCTCAGCTGGCGCGCGGAAAACCCGAAAGTGGATTTGCCCCCGCTCCCTC
CCGGAAACTCCTCCTGGTGCCTGCGACCGTTCTCACTGAGCATGTGCAGACGGCGGTGCG
CATGCTCTGTTGCGGTCCGCTTCGGTTTCTGTTGCGGGACCCGGGGTGTCTCTAGCGCA
ACCGGAACCTAGCCTTCTGGGGCGCGCTTCTTTATCTCTGGCGGCTTGTAGTCGTCTC
CGAGACTCCCCACCCCTCCTTCCCTCTTGACCCCTAGGTTTGATTGCCCTTTCCCGAA
ACAACTATCATGAGCGCGAGGCTGCCGGTGTGTCTCCACCTCGGTGGCCGCGGCTGTTG
CTGCTGTGCTGCTCCTGCTGGGGCGGTTCTTGGCCCGCGCGGAGCGGCGCTTTCTAC
CTGCCCGGCTGGCGCCGTCAACTTCTGCGACGAAGAAAAAGAGCGACGAGTGCAAG
GCCGAAATAGAACTATTTGTGAACAGACTTGATTCAAGTGAATCAGTTCTTCTTATGAA
TACACAGCGTTTGATTTTGGCAAGCATCAGAAGGAAAGCGCCCATCTGANAATCTTGGT
CAGGTACTATTCGGGGAAGAATTGAACCTTCACCATATAAGTTTACGTTTAATAAGAA
GAGACCTGTAAGCTTGTGTTGTACAANAACATACCATACAGAGAAAGCCTGAGACAACAAA
AGTTAGATTCTTGAAGCATGTTATTGATTATCAACTCCTGGATTGTGGATATATGCC
TGTACGTGGTGACNNATGTGAGATGTCAGAGTCTGTATCCTGGATTTCTATGGCTGTA
```

**3' Read Nucleotide**
**Sequence:**

```
>OriGene 3' read for NM_004800 unedited
TGTACCGCGGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGTGATGAAGAGT
TTAATTTATTTCTGTTTTAACTGGACACACTGGACTTCTTCAGTCAACCTTCACCACACT
GTATATTTTGGTAACAAACCAAAAGCATGCAAAAGAGCCAATTGTTCTGTAAAAAGAAA
GAAGATCAAAACATTATCATGGTATAACCAAAGTACAGAATTGTGCTTGCTGTTCCCGT
GATCTGCAGTTTTGAAAAGAAGTAGTGTACTGCATAGATTAAGAAATAAACTGCAGTAAA
GCCACTCGTAAGGAATGAACGCCATTGCCAATGATAATCCTCTGCACATAGGTGGAATA
GCAAAGAAGTATAGTTGCTTCAGAACAGGTAATAACCAAAATGATAAACACCAGAAATAG
GAAGCCAAACATGTAATACATCTGGTGTGACCAAACTATTTCAGAAATGAAGAAAAGTTG
TTAAAGATGCAGCCAAAGGGCAAAATCCCTCCCATGATAATACCAAGCAAGGGCTTTGTG
TACAACGACTGTTCAAGCATCTGACGTGGAATCTGATTGGCCCGAACTGGTGGTCAATG
GCATTTCTTTTAAAACCAAGTTTGCCCACTAAACGTCAAAGCACAGATATGCCGAACCAA
AGGGCCAAATGGGAACCAAGTGTCCCAAAAGGAACACTTGGTGAAGACCCTTCCCCAAAG
GATCACATTTCTTTAAAAAAGTAGACAAACACCTCCACAGAAAAAAGAGGTAACT
TTAAATTTGGTTTCCCTTTTCCCCCACCACGACCTTTAAATTTGGACAACATAACCC
CCGGGGGTGCCTATATTACCCCGAGCAAATTACACGCTTATCGCCCTCGGGGCGGGG
TCACAAACCCACCGCGGAAATACATATA
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004800

**Insert Size:**

2560 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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.

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Note:</b>             | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq:</b>           | <a href="#">NM_004800.1</a> , <a href="#">NP_004791.1</a>                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq Size:</b>      | 3515 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq ORF:</b>       | 1992 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Locus ID:</b>         | 9375                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID:</b>       | <a href="#">Q99805</a>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cytogenetics:</b>     | 13q32.3                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Domains:</b>          | EMP70                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Families:</b> | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>     | This gene encodes a member of the transmembrane 9 superfamily. The encoded 76 kDa protein localizes to early endosomes in human cells. The encoded protein possesses a conserved and highly hydrophobic C-terminal domain which contains nine transmembrane domains. The protein may play a role in small molecule transport or act as an ion channel. A pseudogene associated with this gene is located on the X chromosome. [provided by RefSeq, Oct 2012] |