

## Product datasheet for MC207818

### Tecr (NM\_134118) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tecr (NM\_134118) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tecr  
**Synonyms:** 2410016D23Rik; A230102P12Rik; A1173355; D17Erttd178e; Gpsn2; SC2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207818 representing NM\_134118  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCACTACGAGGTGGAGATTCGGGATGCAAAGACGAGGGAGAAGCTGTGCTTCTGGACAAGGTAG  
 AGCCTCAGGCCACCATTTCTGAAATCAAGACCCCTTTCCACCAAGACACCCGCGAGTGGTATCCTGCCCG  
 CCAGTCCCTCCGCTGGACCCCAAGGGGAAGTCCCTGAAAGATGAAGATGTCTTACAGAAGCTTCTGTG  
 GGCACCACAGCCCACTCTACTTCCGGGACCTCGGGGCCAGATCAGCTGGGTGACGGTCTTCTGACGG  
 AGTATGCCGGGCCCTTTTCATCTACTGCTCTTCTACTTCCGGGTACCCCTTCATTTATGCCGCAATA  
 CGACTTTACGTCCAGTCGGCATAACGGTGGTGCACCTCGCCTGCATGTGCCACTCGTTCCACTACATCAAG  
 CGCCTGTGGAGACTCTCTTCGTGCACCGATTCTCTCACGGAACCATGCCTTTGCGAAACATCTTCAAAA  
 ACTGCACCTACTATTGGGGCTTTGCTGCATGGATGGCTTATTACATCAACCACCCCTCTACACACCCCC  
 TACCTATGGAGTTCAGCAGGTTAAGCTGGCACTGGCCGTTTTGTGATCTGCCAGCTTGGGAACCTCTCC  
 ATCCACATGGCTCTTCGGGACCTTCGGCCTGCTGGTGCAAAACCAGGAAGATCCCATACCCACCAAGA  
 ACCCTTCACCTGGCTTCTCTGTGGTGCCTGTCCCACTACACTTATGAGGTGGGCTCCTGGATTGG  
 CTTTGCCATCTTGACTCAGTGTGCCAGTGGCCCTCTTCTCCCTGGTGGGCTTACCCAGATGACTATC  
 TGGGCCAAGGGCAAACCCGAGCTACCTGAAGGAGTTCGCGACTACCCGCCCTGCGCATGCCATTA  
 TTCCCTTCTGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_134118  
**Insert Size:** 927 bp



[View online »](#)

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_134118.5</a> , <a href="#">NP_598879.1</a>
<b>RefSeq Size:</b>	1190 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	106529
<b>UniProt ID:</b>	<a href="#">Q9CY27</a>
<b>Cytogenetics:</b>	8 40.22 cM
<b>Gene Summary:</b>	<p>Involved in both the production of very long-chain fatty acids for sphingolipid synthesis and the degradation of the sphingosine moiety in sphingolipids through the sphingosine 1-phosphate metabolic pathway (By similarity). Catalyzes the last of the four reactions of the long-chain fatty acids elongation cycle (By similarity). This endoplasmic reticulum-bound enzymatic process, allows the addition of 2 carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle (By similarity). This enzyme reduces the trans-2,3-enoyl-CoA fatty acid intermediate to an acyl-CoA that can be further elongated by entering a new cycle of elongation (By similarity). Thereby, it participates in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators (By similarity). Catalyzes the saturation step of the sphingosine 1-phosphate metabolic pathway, the conversion of trans-2-hexadecenoyl-CoA to palmitoyl-CoA (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>