

## Product datasheet for MC212125

### Tecr (NM\_027179) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tecr (NM_027179) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tecr
Synonyms:	2410016D23Rik; A230102P12Rik; A1173355; D17ErtD178e; Gpsn2; SC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212125 representing NM_027179 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGCACTACGAGGTGGAGATTCGGGATGCAAAGACGAGGGAGAAGCTGTGCTTCTGGACAAGGTAG  
AGCCTCAGGCCACCATTCTGAAATCAAGACCCTTTTCACCAAGACACAGGGGAAGTCCCTGAAAGATGA  
AGATGTCTTACAGAAGCTTCTGTGGGCACCACAGCCCACTCTACTTCCGGGACCTCGGGGCCAGATC  
AGCTGGGTGACGGTCTTCTGACGGAGTATGCCGGCCCTTTTCATCTACCTGCTTCTACTTCCGGG  
TACCCTTCATTTATGGCCGCAAATACGACTTTACGTCCAGTCGGCATAACGGTGGTGCACCTCGCCTGCAT  
GTGCCACTCGTTCACACTACATCAAGCGCCTGTGGAGACTCTCTTCGTGCACCGATTCTCTACGGAACC  
ATGCCTTTGCGAAACATCTTCAAAAACCTGCACCTACTATTGGGGCTTTGCTGCATGGATGGCTTATTACA  
TCAACCACCCTCTCTACACACCCCTACCTATGGAGTTCAGCAGGTTAAGCTGGCACTGGCCGTTTTTGT  
GATCTGCCAGCTTGGGAACCTTCCATCCACATGGCTCTTCGGGACCTTCGGCCTGCTGGGTGCGAAAACC  
AGGAAGATCCCATACCCACCAAGAACCCTTCACCTGGCTGTTCTGTTGGTGTCTGTCCCAACTACA  
CTTATGAGGTGGGCTCCTGGATTGGCTTTGCCATCTTGACTCAGTGTGTCCAGTGGCCCTTCTCCCT  
GGTGGGCTTACCCAGATGACTATCTGGGCCAAGGGCAAACACCCGAGCTACCTGAAGGAGTTCGGCGAC  
TACCCGCCCTGGCATGCCATTATTCCTTCTGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_027179
Insert Size:	882 bp



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<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_027179.1</a> , <a href="#">NP_081455.1</a>
<b>RefSeq Size:</b>	1145 bp
<b>RefSeq ORF:</b>	882 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 (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>