

Product datasheet for MR204349

Tecr (NM_134118) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tecr (NM_134118) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tecr
Synonyms:	2410016D23Rik; A230102P12Rik; A1173355; D17ErtD178e; Gpsn2; SC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204349 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCACTACGAGGTGGAGATTCGGGATGCAAAGACGAGGGAGAAGCTGTGCTTCCTGGACAAGGTAG
AGCCTCAGGCCACCATTCTGAAATCAAGACCCTTTTCACCAAGACACACCCGAGTGGTATCCTGCCCG
CCAGTCCCTCCGCTGGACCCCAAGGGGAAGTCCCTGAAAGATGAAGATGTCTTACAGAAGCTTCCTGTG
GGCACCACAGCCACACTCTACTCCGGGACCTCGGGGCCAGATCAGCTGGGTGACGGTCTTCCTGACGG
AGTATGCCGGGCCCTTTTCATCTACCTGCTCTTCTACTCCGGGTACCCTTCATTTATGGCCGCAATA
CGACTTTACGTCCAGTCGGCATACGGTGGTGCACCTCGCCTGCATGTGCCACTCGTTCACCTACATCAAG
CGCCTGCTGGAGACTCTTTCGTGCACCGATTCTCTCACGGAACCATGCCTTTGGAAACATCTTCAAAA
ACTGCACCTACTATTGGGGCTTTGCTGCATGGATGGCTTATTACATCAACCACCCTCTCTACACACCCCC
TACCTATGGAGTTCAGCAGGTTAAGCTGGCACTGGCCGTTTTTGTGATCTGCCAGCTTGGGAACCTCTCC
ATCCACATGGCTCTTCGGGACCTTCGGCCTGCTGGGTGAAAACAGGAAGATCCCATACCCACCAAGA
ACCCCTCACCTGGCTGTTCTGTTGGTGTCTGTCCAACTACACTTATGAGGTGGGCTCCTGGATTGG
CTTTGCCATCTTGACTCAGTGTGTCCAGTGGCCCTCTTCTCCCTGGTGGGCTTCACCCAGATGACTATC
TGGGCCAAGGGCAAACACCGCAGCTACCTGAAGGAGTTCGCGACTACCCGCCCTGCGCATGCCATTA
TCCCTTCTGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204349 protein sequence
 Red=Cloning site Green=Tags(s)

MKHYEVEIRDAKTREKLCFLDKVEPQATISEIKTLFTKTHPQWYPARQSLRLDPKGKSLKDEDVLQKLPV
 GTTATLYFRDLGAQISWTVVFLTEYAGPLFIYLLFYFRVPIYGRKYDFSSRHTVVHLACMCHSFHYIK
 RLLETLFVHRFSHGTMPLRNIFKNCTYYWGF AAWMAYYINHPLYTPPTYGVQVQLALAVVICQLGNFS
 IHMALRDLRPAGSKTRKIPYPTKNPFTWLLVSCPNTYEVGSWIGFAILTQCVPVALFSLVGFQMTI
 WAKGKHSYKFEFRDYPPLRMPPIIPFLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_134118

ORF Size: 927 bp

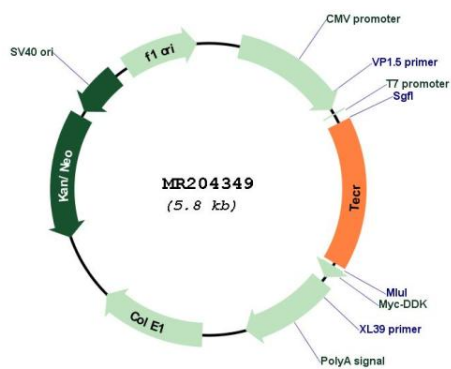
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_134118.5 , NP_598879.1
RefSeq Size:	1190 bp
RefSeq ORF:	927 bp
Locus ID:	106529
UniProt ID:	Q9CY27
Cytogenetics:	8 40.22 cM
MW:	36.1 kDa
Gene Summary:	<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>

Product images:



Circular map for MR204349