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Product datasheet for MG216948

Tecr (NM_027179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Tecr
Synonyms:	2410016D23Rik; A230102P12Rik; AI173355; D17Ertd178e; Gpsn2; SC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG216948 representing NM_027179
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCACTACGAGGTGGAGATTCGGGATGCAAAGACGAGGGAGAAGCTGTGCTTCCTGGACAAGGTAG
AGCCTCAGGCCACCATTTCTGAAATCAAGACCCTTTTCACCAAGACACAGGGGAAGTCCCTGAAAGATGA
AGATGTCTTACAGAAGCTTCCTGTGGGCACCACAGCCACACTCTACTTCCGGGACCTCGGGGCCCAGATC
AGCTGGGTGACGGTCTTCCTGACGGAGTATGCCGGGCCCCTTTTCATCTACCTGCTCTTCTACTTCCGGG
TACCCTTCATTTATGGCCGCAAATACGACTTTACGTCCAGTCGGCATACGGTGGTGCACCTCGCCTGCAT
GTGCCACTCGTTCCACTACATCAAGCGCCTGCTGGAGACTCTCTTCGTGCACCGATTCTCTCACGGAACC
ATGCCTTTGCGAAACATCTTCAAAAACTGCACCTACTATTGGGGCTTTGCTGCATGGATGGCTTATTACA
TCAACCACCCTCTCTACACACCCCCTACCTATGGAGTTCAGCAGGTTAAGCTGGCACTGGCCGTTTTTGT
GATCTGCCAGCTTGGGAACTTCTCCATCCACATGGCTCTTCGGGACCTTCGGCCTGCTGGGTCGAAAACC
AGGAAGATCCCATACCCCACCAAGAACCCCTTCACCTGGCTGTTCCTGTTGGTGTCCTGTCCCAACTACA
CTTATGAGGTGGGCTCCTGGATTGGCTTTGCCATCTTGACTCAGTGTGTCCCAGTGGCCCTCTTCTCCCT
GGTGGGCTTCACCCAGATGACTATCTGGGCCAAGGGCAAACACCGCAGCTACCTGAAGGAGTTCCGCGAC
TACCCGCCCCTGCGCATGCCCATTATTCCCTTCCTGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

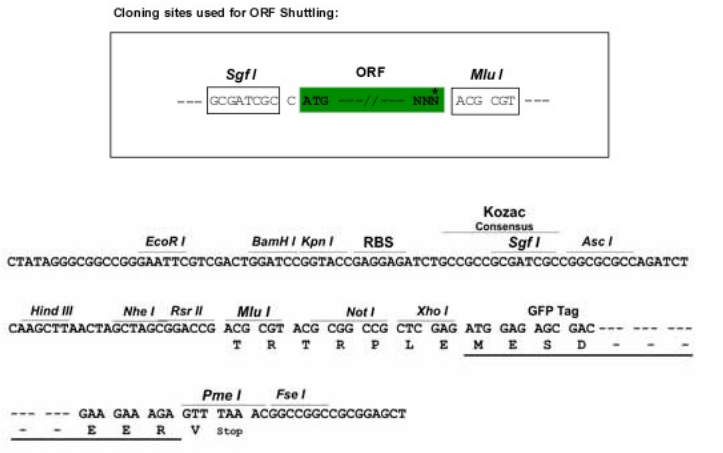
>MG216948 representing NM_027179
Red=Cloning site Green=Tags(s)

MKHYEVEIRDAKTREKLCFLDKVEPQATISEIKTLFTKTQGKSLKDEDVLQKLPVGTTATLYFRDLGAQI
SWVTVFLTEYAGPLFIYLLFYFRVPFIYGRKYDFTSSRHTVVHLACMCHSFHYIKRLLETLFVHRFSHGT
MPLRNIFKNCTYYWGFAAWMAYYINHPLYTPPTYGVQQVKLALAVFVICQLGNFSIHMALRDLRPAGSKT
RKIPYPTKNPFTWLFLLVSCPNYTYEVGSWIGFAILTQCVPVALFSLVGFTQMTIWAKGKHRSYLKEFRD
YPPLRMPIIPFLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027179

ORF Size: 879 bp

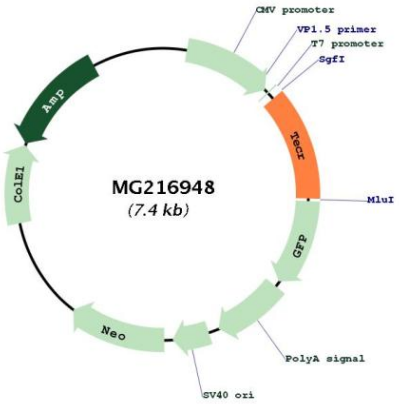
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_027179.1, NP_081455.1
RefSeq Size:	1145 bp
RefSeq ORF:	882 bp
Locus ID:	106529
UniProt ID:	Q9CY27
Cytogenetics:	8 40.22 cM
Gene Summary:	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]

Product images:



Circular map for MG216948