

Product datasheet for **MC226937**

Tex264 (NM_001081654) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tex264 (NM_001081654) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tex264
Synonyms: TEG-264
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226937 representing NM_001081654
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGATCTCCTACTACTGGGCCTGATTGGGGCCCTGACGCTGCTGTTGCTGCTGACGCTGCTGGCCT
 TTGCTGGTTATTCAGGACTGCTGACTGGGGTGACAGTGAGCGCTGGATCACCCCCAATCCGCAACATAAC
 TGTGGCCTACAAGTTCACGTGGGGTCCATGGTGACACTGGGCACCTTTTCACAGAGAGCTGCAGCATC
 TCTCCAAAGCTCCGTCCATCGCTGTCTACTATGACAACCCCATACGGTGCCTCCTGAGAAGTGCCGCT
 GTGCAGTCGGCAGCATCCTGAGTGAGGGGGAGGAGTCGCCTTCACCTGAGCTCATCCACCTCTATCAGAA
 ATTTGGCTTAAGATATTCTCCTCCCAGCACCTAGCCATGTGGTCATAGCTACCTTCCCTTACACCACC
 CCCATATCCATCTGGCTGGCTGCCCGCCGAGTCCATCCTGCCTTGATACCTACATCAAGGAGCGGAAGC
 TGTGTGCTCACCTCGCCTGGAGATCTACCATCAAGACAAGATCCATTTTCATGTGCCACTGGCAAGGCA
 AGGAGATTTCTACGTGCCAGAGGTGAAGGAGACAGAGCGGAAATGCCGGGAGCTTGCGGAGGCCACTGAC
 ACCCAGACGGATGGCACAGGAGCTGATAACAAGTGATGCAAGTTCGTGAGCCTGGATGTTCCGCTTGCA
 GCCGGGAGACTTCAGCCACCACACTTTCTCCTGGGGCAGGCAACCGTGGCTGGGACGACGGTGACAACCG
 CAGCGAGCACAGCTACAGTGAATCGGGTGCCAGTGGCTCATCCTTTGAGGAGCTGGACCTGGAGGGCGAG
 GGACCCTTGGGAGAACCCGACTGAACCCTGAAGCCAAGCTTCTGGGGCCCCCTCGGAGCTCAGCACCC
 CTGAGAGGGGTGAGGAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001081654
Insert Size: 930 bp



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OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001081654.2 , NP_001075123.1
RefSeq Size:	1451 bp
RefSeq ORF:	930 bp
Locus ID:	21767
UniProt ID:	E9Q137
Cytogenetics:	9 F1
Gene Summary:	<p>Major reticulophagy (also called ER-phagy) receptor that acts independently of other candidate reticulophagy receptors to remodel subdomains of the endoplasmic reticulum into autophagosomes upon nutrient stress, which then fuse with lysosomes for endoplasmic reticulum turnover. The ATG8-containing isolation membrane (IM) cradles a tubular segment of TEX264-positive ER near a three-way junction, allowing the formation of a synapse of 2 juxtaposed membranes with trans interaction between the TEX264 and ATG8 proteins. Expansion of the IM would extend the capture of ER, possibly through a 'zipper-like' process involving continued trans TEX264-ATG8 interactions, until poorly understood mechanisms lead to the fission of relevant membranes and, ultimately, autophagosomal membrane closure. Also involved in the repair of covalent DNA-protein cross-links (DPCs) during DNA synthesis: acts by bridging VCP/p97 to covalent DNA-protein cross-links (DPCs) and initiating resolution of DPCs by SPRTN.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein.</p>