OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR229148

Tex264 (NM_001081654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tex264 (NM_001081654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tex264
Synonyms:	TEG-264
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR229148 representing NM_001081654
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGATCTCCTACTACTGGGCCTGATTGGGGCCCTGACGCTGCTGTTGCTGCTGACGCTGCTGGCCT
TTGCTGGTTATTCAGGACTGCTGACTGGGGTGACAGTGAGCGCTGGATCACCCCCAATCCGCAACATAAC
TGTGGCCTACAAGTTCCACGTGGGGTCCTATGGTGACACTGGGCACCTTTTCACAGAGAGCTGCAGCATC
TCTCCCAAGCTCCGTTCCATCGCTGTCTACTATGACAACCCCCATACGGTGCCTCCTGAGAAGTGCCGCT
GTGCAGTCGGCAGCATCCTGAGTGAGGGGGAGGAGTCGCCTTCACCTGAGCTCATCCACCTCTATCAGAA
ATTTGGCTTCAAGATATTCTCCTTCCCAGCACCTAGCCATGTGGTCATAGCTACCTTCCCTTACACCACC
CCCATATCCATCTGGCTGGCTGCCCGCCGAGTCCATCCTGCCTTGGATACCTACATCAAGGAGCGGAAGC
TGTGTGCTCACCCTCGCCTGGAGATCTACCAGCAAGACAAGATCCATTTCATGTGCCCACTGGCAAGGCA
AGGAGATTTCTACGTGCCAGAGGTGAAGGAGACAGAGCGGAAATGCCGGGAGCTTGCGGAGGCCACTGAC
ACCCAGACGGATGGCACAGGAGCTGATACAAGTGATGCAAGTTCTGTGAGCCTGGATGTTCGCCCTGGCA
GCCGGGAGACTTCAGCCACCACACTTTCTCCTGGGGCAGGCAACCGTGGCTGGGACGACGGTGACAACCG
CAGCGAGCACAGCTACAGTGAATCGGGTGCCAGTGGCTCGTCCTTTGAGGAGCTGGACCTGGAGGGCGAG
GGACCCTTGGGAGAACCCCGACTGAACCCTGAAGCCAAGCTTCTGGGGCCCCCTCGGGAGCTCAGCACCC
CTGAGAGGGGTGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

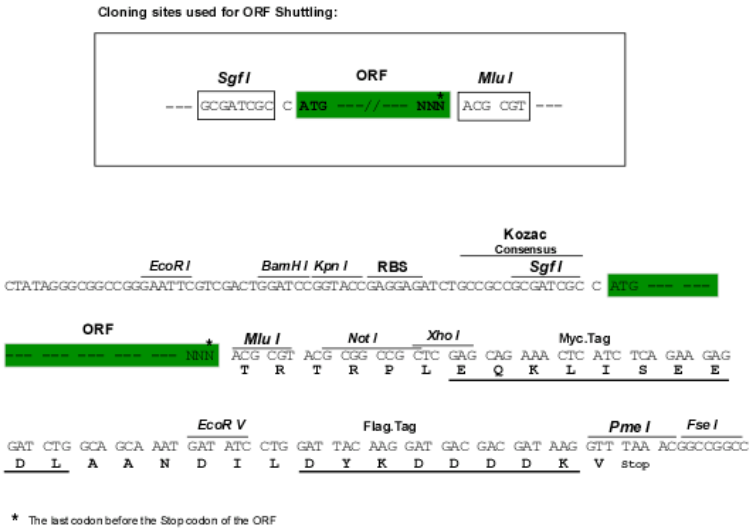
>MR229148 representing NM_001081654
Red=Cloning site Green=Tags(s)

MPDLLLLGLIGALTLLLLLTLLAFAGYSGLLTGVTVSAGSPPIRNITVAYKFHVGSYGDTGHLFTESCSI
SPKLRSIAVYYDNPHTVPPEKCRCAVGSILSEGEESPSPELIHLYQKFGFKIFSFPAPSHVVIATFPYTT
PISIWLAARRVHPALDTYIKERKLCAHPRLEIYQQDKIHFMCPLARQGDFYVPEVKETERKCRELAEATD
TQTDGTGADTSDASSVSLDVRPGSRETSATTLSPGAGNRGWDDGDNRSEHSYSESGASGSSFEELDLEGE
GPLGEPRLNPEAKLLGPPRELSTPERGEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081654

ORF Size: 927 bp

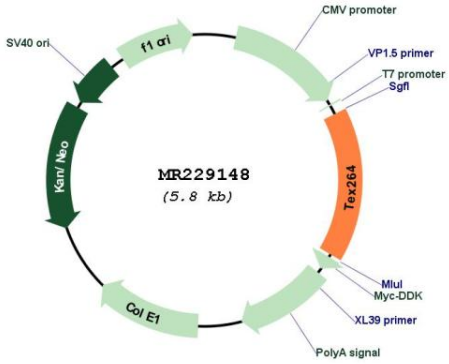
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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_001081654.1, NM_001081654.2, NP_001075123.1
RefSeq Size:	1451 bp
RefSeq ORF:	930 bp
Locus ID:	21767
UniProt ID:	E9Q137
Cytogenetics:	9 F1
MW:	33.6 kDa
Gene Summary:	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]

Product images:



Circular map for MR229148