

Product datasheet for **RG225442**

TEX264 (NM_001129884) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TEX264 (NM_001129884) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TEX264
Synonyms: ZSIG11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225442 representing NM_001129884
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGACCTGCTACTACTGGCCTGATTGGGGCCTGACTCTTACTGCTGCTGACGCTGCTGGCCT
TTGCCGGTACTCAGGGCTACTGGCTGGGGTGGAAAGTGAGTGCTGGGTACCCCCATCCGCAACGTCAC
TGTGGCCTACAAGTTCACATGGGGCTCTATGGTGAGACTGGGCGGCTTTCACTGAGAGCTGCAGCATC
TCTCCCAAGCTCCGCTCCATCGCTGTCTACTATGACAACCCACATGGTGCCCCCTGATAAGTGCCGAT
GTGCCGTGGGCAGCATCCTGAGTGAAGGTGAGGAATCGCCCTCCCCTGAGCTCATCGACCTTACCAGAA
ATTTGGCTTCAAGGTGTTCTCCTCCCGCACCCAGCCATGTGGTGACAGCCACCTCCCTACACCACC
ATTCTGTCCATCTGGCTGGCTACCCGCCGTGCCATCCTGCCTTGACACCTACATCAAGGAGCGGAAGC
TGTGTGCCTATCCTCGGCTGGAGATCTACCAGGAAGACCAGATCCATTTTCATGTGCCACTGGCACGGCA
GGGAGACTTCTATGTGCCTGAGATGAAGGAGACAGAGTGGAAATGGCGGGGGCTTGTGGAGGCCATTGAC
ACCCAGGTGGATGGCACAGGAGCTGACACAATGAGTGACACGAGTTCTGTAAGCTTGAAGTGAGCCCTG
GCAGCCGGGAGACTTCAGCTGCCACACTGTCACCTGGGGCGAGCAGCCGTGGCTGGGATGACGGTGACAC
CCGCAGCGAGCACAGCTACAGCGAGTCAGGTGCCAGCGGCTCCTCTTTTGAGGAGCTGGACTTGGAGGGC
GAGGGGCCCTTAGGGGAGTCACGGCTGGACCTGGGACTGAGCCCTGGGGACTACCAAGTGCTCTGGG
AGCCCACTGCCCTGAGAAGGGCAAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225442 representing NM_001129884
 Red=Cloning site Green=Tags(s)

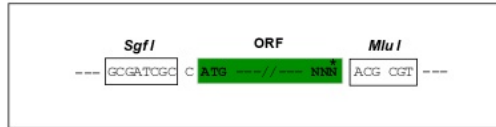
MSDLLLLGLIGLLTLLLLLTLAFAGYSGLLAGVEVSAGSPPIRNVTVAYKFMGLYGETGRLFTESCSI
 SPKLRSIAYVYDNPMMVPPDKRCRAVGSILSEGEESPSPELIDL YQKFGFKVFSFPAPSHVVTATFPYTT
 ILSIWLATRRVHPALDITYIKERKLCAYPRLEIYQEDQIHFMCLARQGDYVPEMKETEWKWRGLVEAID
 TQVDGTGADTMSDTSVSVLEVSPGSRSAATLSPGASSRGWDDGDRSEHSYSSESGASGSSFEELDLEG
 EGPLGESRLDPGTEPLGTTKWLWEPTAPEKGKE

TRTRPLE - GFP Tag - V

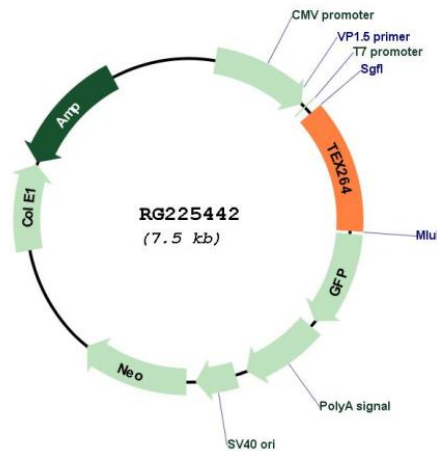
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001129884

ORF Size: 939 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_001129884.2 , NP_001123356.1
RefSeq Size:	1434 bp
RefSeq ORF:	942 bp
Locus ID:	51368
UniProt ID:	Q9Y6I9
Cytogenetics:	3p21.2
Protein Families:	Secreted Protein, Transmembrane
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 (PubMed:31006538, PubMed:31006537). 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 (PubMed:31006537). 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 (PubMed:31006537). [UniProtKB/Swiss-Prot Function]