

Product datasheet for **RG233517**

TEX264 (NM_001243727) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TEX264 (NM_001243727) 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: >RG233517 representing NM_001243727
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGACCTGCTACTACTGGGCCTGATTGGGGCCTGACTCTCTTACTGCTGCTGACGCTGCTGGCCT
TTGCCGGTACTCAGGGCTACTGGCTGGGGTGGAAAGTGAGTGCTGGGTACCCCCATCCGCAACGTCAC
TGTGGCCTACAAGTTCACATGGGGCTCTATGGTGAGACTGGGCGGCTTTTCACTGAGAGCTGCAGCATC
TCTCCAAAGCTCCGCTCCATCGCTGTCTACTATGACAACCCACATGGAGCGGAAGCTGTGTGCCTATC
CTCGGCTGGAGATCTACCAGGAAGACCAGATCCATTTTCATGTGCCCACTGGCACGGCAGGGAGACTTCTA
TGTGCCTGAGATGAAGGAGACAGAGTGGAAATGGCGGGGCTTGTGGAGGCCATTGACACCCAGGTGGAT
GGCACAGGAGCTGACACAATGAGTGACACGAGTTCTGTAAGCTTGGAAAGTGAGCCCTGGCAGCCGGGAGA
CTTCAGCTGCCCACTGTACCTGGGGCGAGCAGCCGTGGCTGGGATGACGGTGACACCCGAGCGAGCA
CAGCTACAGCGAGTCAGGTGCCAGCGGCTCCTCTTTTGAGGAGCTGGACTTGGAGGGCGAGGGGCCCTTA
GGGGAGTACGGCTGGACCCTGGGACTGAGCCCTGGGGACTACCAAGTGGCTCTGGGAGCCCACTGCC
CTGAGAAGGGCAAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233517 representing NM_001243727
Red=Cloning site Green=Tags(s)

```
MSDLLLLGLIGLLTLLLLLTLAFAGYSGLLAGVEVSAGSPPIRNVTVAYKFMGLYGETGRLFTESCSI
SPKLRSIAVYYDNPHERKLCAYPRLEIYQEDQIHFMCLARQGFYVPEMKETEWKWRGLVEAIDTQVD
GTGADTMSDTSSVSLEVSPGSRSETSAAATLSPGASSRGWDDGDTRSEHSYSESGASGSSFEELDLEGEPL
GESRLDPGTEPLGTTKWLWEPTAPEKGKE
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243727

ORF Size: 717 bp

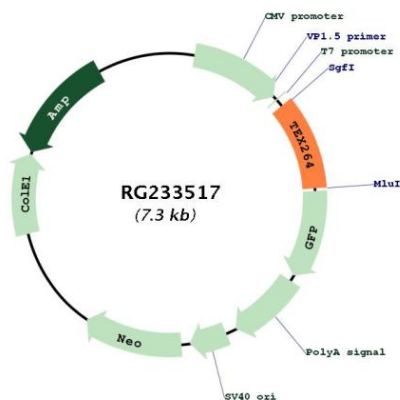
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001243727.2 , NP_001230656.1
RefSeq Size:	1181 bp
RefSeq ORF:	720 bp
Locus ID:	51368
UniProt ID:	Q9Y6I9
Cytogenetics:	3p21.2
Protein Families:	Secreted Protein, Transmembrane
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 (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]</p>

Product images:



Circular map for RG233517