

Product datasheet for **RG200008**

TEX264 (NM_015926) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TEX264 (NM_015926) 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: | >RG200008 representing NM_015926 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGACCTGCTACTACTGGGCCTGATTGGGGCCTGACTCTCTTACTGCTGCTGACGCTGCTGGCCT
TTGCCGGTACTCAGGGCTACTGGCTGGGGTGGAAAGTGAGTGCTGGGTACCCCCATCCGCAACGTCAC
TGTGGCCTACAAGTTCACATGGGGCTCTATGGTGAGACTGGGCGGCTTTCACTGAGAGCTGCAGCATC
TCTCCCAAGCTCCGCTCCATCGCTGTCTACTATGACAACCCACATGGTGCCCCCTGATAAGTGCCGAT
GTGCCGTGGGCAGCATCCTGAGTGAAGGTGAGGAATCGCCCTCCCCTGAGCTCATCGACCTTACCAGAA
ATTTGGCTTCAAGGTGTTCTCCTCCCGCACCCAGCCATGTGGTGACAGCCACCTCCCTACACCACC
ATTCTGTCCATCTGGCTGGCTACCCGCCGTGCCATCCTGCCTTGACACCTACATCAAGGAGCGGAAGC
TGTGTGCCTATCCTCGGCTGGAGATCTACCAGGAAGACCAGATCCATTTTATGTGCCACTGGCACGGCA
GGGAGACTTCTATGTGCCTGAGATGAAGGAGACAGAGTGGAATGGCGGGGGCTTGTGGAGGCCATTGAC
ACCCAGGTGGATGGCACAGGAGCTGACACAATGAGTGACACGAGTTCTGTAAGCTTGAAGTGAGCCCTG
GCAGCCGGGAGACTTCAGCTGCCACACTGTCACCTGGGGCGAGCAGCCGTGGCTGGGATGACGGTGACAC
CCGCAGCGAGCACAGCTACAGCGAGTCAGGTGCCAGCGGCTCCTCTTTGAGGAGCTGGACTTGGAGGGC
GAGGGGCCCTTAGGGGAGTCACGGCTGGACCTGGGACTGAGCCCTGGGGACTACCAAGTGCTCTGGG
AGCCCACTGCCCTGAGAAGGGCAAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200008 representing NM_015926
 Red=Cloning site Green=Tags(s)

MSDLLLLGLIGLLTLLLLLTLAFAGYSGLLAGVEVSAGSPPIRNVTVAVKFHMGLYGETGRLFTESCSI
 SPKLRSAIVVYDNPMMVPPDKRCRAVGSILSEGEESPSPELIDL YQKFGFKVFSFPAPSHVVTATFPYTT
 ILSIWLATRRVHPALDITYIKERKLCAYPRLEIYQEDQIHFMCLARQGDFYVPEMKETEWKWRGLVEAID
 TQVDGTGADTMSDTSSVSLEVSPGSRSAATLSPGASSRGWDDGDRSEHSYSSESGASGSSFEELDLEG
 EGPLGESRLDPGTEPLGTTKWLWEPTAPEKGKE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015926

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:

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_015926.6](#)

RefSeq Size: 1601 bp

RefSeq ORF: 942 bp

Locus ID: 51368

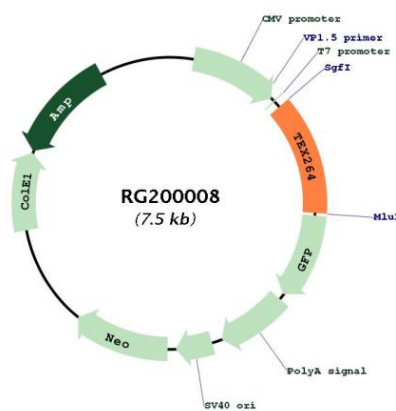
UniProt ID: [Q9Y6I9](#)

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]

Product images:



Circular map for RG200008