

## Product datasheet for **MG204389**

### Tex264 (NM\_011573) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Tex264 (NM_011573) Mouse Tagged ORF Clone                                   |
| Tag:                      | TurboGFP  |
| Symbol:                   | Tex264  |
| Synonyms:                 | TEG-264   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG204389 representing NM_011573<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGATCTCCTACTACTGGCCTGATTGGGGCCCTGACGCTGCTGTTGCTGCTGACGCTGCTGGCCT  
TTGCTGGTTATTCAGGACTGCTGACTGGGGTGACAGTGAGCGCTGGATCACCCCAATCCGCAACATAAC  
TGTGGCCTACAAGTTCACGTGGGGTCTATGGTGACACTGGGCACCTTTTCACAGAGAGCTGCAGCATC  
TCTCCAAGCTCCGTTCCATCGCTGTCTACTATGACAACCCCATACGGTGCCTCCTGAGAAGTGCCGCT  
GTGCACTCGGCAGCATCCTGAGTGAGGGGAGGAGTCGCCTTACCTGAGCTCATCCACCTCTATCAGAA  
ATTTGGCTTCAAGATATTCTCCTCCCAGCACCTAGCCATGTGGTCATAGCTACCTCCCTTACACCACC  
CCCATATCCATCTGGCTGGCTGCCCGCCGAGTCCATCCTGCCTTGATACCTACATCAAGGAGCGGAAGC  
TGTGTGCTCACCTCGCCTGGAGATCTACCAGCAAGACAAGATCCATTTTCATGTGCCCACTGGCAAGGCA  
AGGAGATTTCTACGTGCCAGAGGTGAAGGAGACAGAGCGGAAATGCCGGGAGCTTGGCGAGGCCACTGAC  
ACCCAGACGGATGGCACAGGAGCTGATACAAGTATGCAAGTTCTGTGAGCCTGGATGTTCCGCCCTGGCA  
GCCGGGAGACTTCAGCCACCACACTTTCTCCTGGGGCAGGCAACCGTGGCTGGGACGACGGTGACAACCG  
CAGCGAGCACAGCTACAGTGAATCGGGTCCAGTGGCTCGTCTTTGAGGAGCTGGACCTGGAGGGCGAG  
GGACCTTGGGAGAACCCTGACTGAACCTGAAGCCAAGCTTCTGGGGCCCCCTCGGAGCTCAGCACCC  
CTGAGAGGGGTGAGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204389 representing NM\_011573  
 Red=Cloning site Green=Tags(s)

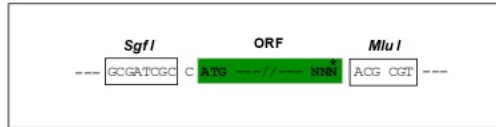
MPDLLLLGLIGALTLLLLLLTLLAFAGYSGLLTGVTVSAGSPPIRNITVAYKFHVGSYDGTGHLFTESCSI  
 SPKLRSIAVYYDNPHTVPPEKCRCAVGSILSEGEESPSPELIHL YQKFGFKIFSFPAPSHVVIATFPYTT  
 PISIWLAARRVHPALDITYIKERKLCAPRLEIYQQDKIHFMCLARQGDYVPEVKETERKRELAEATD  
 TQTDGTGADTSDASSVSLDVRPGSRETSATTLSPGAGNRGWDGDNRSEHSYSSESGASGSSFEELDLEGE  
 GPLGEPRLNPEAKLLGPPRELSTPERGEE

TRTRPLE - GFP Tag - V

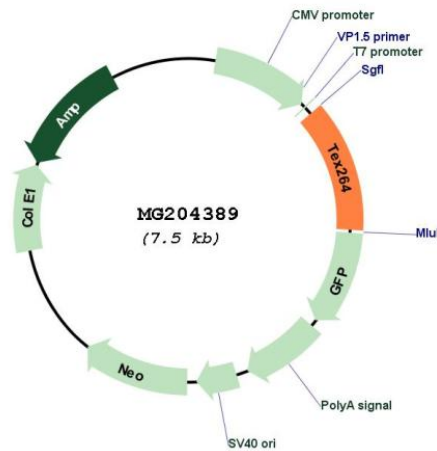
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_011573

**ORF Size:** 927 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_011573.2</a> , <a href="#">NP_035703.2</a>  |
| <b>RefSeq Size:</b>           | 1757 bp  |
| <b>RefSeq ORF:</b>            | 930 bp   |
| <b>Locus ID:</b>              | 21767  |
| <b>UniProt ID:</b>            | <a href="#">E9Q137</a>   |
| <b>Cytogenetics:</b>          | 9 F1   |
| <b>Gene Summary:</b>          | 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] |