

## Product datasheet for **MR209070**

### Tex2 (BC057406) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tex2 (BC057406) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tex2
Synonyms:	Taz4, Def-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209070 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAATGAGATTTACAACATGATCCAGAACTTACCACGCGACTTTGACGCACTCAGTCTTTGTCCGGC  
 TCGAGGGTGGAACCTTAAGACTTTCAAAGCCCAACAAAAACATATCCAGGAGGGCAAGCTACAATGAGAC  
 AAAGCCAGAGGTACCTACATCAGCCAGAAAATCTATGACCTCTCAGACAGCAAGATTTATCTTGTACCT  
 AAAAGCTTGGCTCGAAAGCGAATCTGGAATAAGAAGTACCCATTTGCATTGAACTTGGTCGGCAAGATG  
 ACTTTATGTCTAAGGCGCAGTCTGATAAGGAAGCTACTGAGGAGAAGCCGCTCTGAGAAAAGAGCTGCC  
 GAGCGAAGACCTCAAGAAGCCACCCAGCCTCAAGAGGGGACGAAGTCTAGCCAGCGAGACCCAATACTG  
 TATCTGTTGGGAGAACGGGCCGAGAGAAAAGAGGAGTGGTTCAGGCGGTTATCTCGGCCTCGAGGCTGA  
 AGTCAGAGCTCAGGAAGCCGGCGGTTTCTGGAAGTAAATCAGGGCTTCTGCCCGCACACAGCAGGCA  
 CAGCAGTCCCTCGGGCACCTGAGCCACAGCCGACGAGCAGCAAGGCAGCGTGGAGGAAATGATGTCC  
 CAGCCAAAGCAGAAGGAACTGGTGGGCAGCGTGCAGCAGAAGATGCTCCTAGACTACAGTGTGTACATGG  
 GCAGGTGTGTGCCCCAGGACAACCGAAGCCCCACAGGAGCCCCGTGCAGAGTGCAGAGAGCAGCCCCAC  
 AGCTTCGAAGAAGTTGCCAGAGGCCACCCCTCTGAGGAGGAAGAACAGGAAGCCTGGGTGAATGCTTTG  
 CTTGGAAGAATATTTGGGACTTCTGGGCGAGAAATACTGGTCTGATGTGGTGTGAAGAAAATCCAGA  
 TGAAACTCAGCAAAATTAAGCTCCCTACTTTATGAATGAACTAACACTGACAGAGCTTGACATGGGTGT  
 AGCTGTGCCAAAATCCTCAGGCCCTCAAGCCTTATGTTGATCACCAGGACTCTGGATCGATTTGGAA  
 ATGCTTACAATGGTCTTTCTGATGACTCTGGAACCAAAATGAACTGACCAAACTAGTAAAGAGC  
 CTCTTGTGAAGCCCTGAAGGTTGGAAATTTGGCAAGAAGGGGCCAGGCATCTGTCTGGCTGACAG  
 TGATGAAGAATCCTCCAGTGTGGCTCCTCTGAGGAAGATGACCCACCAGAACCCTGCTGGAGACAAA  
 CAGCCGCTCCCCGGGCTGAAGGTTACGTTGGAGGTCATCGAACAAAGCAAGATTATGAGGTTTGTGATA  
 AGATCACCAAAATCAAAATATTTCCAAAAGCAACAGAGACAGAATTCATTAAGAAAGATCGAAGAAGT  
 CTCTAATACACCACTGCTGCTAACTGTGGAAGTGAAGAGTGTGAGGGACCTTGGCGGTCAACATCCCC  
 CCACCACCGACTGACCGGATATGGTATGGTTCCGGAAGCCACCGTATGTGGAGCTGAAAGCTCGGCCAA  
 AACTTGGAGAGAGAAGTGACTTTAGTTCACGTGACAGAGTGGATTGAGAAGAACTGGAGCAGGAGCT  
 TCAGAAAGTGTTCATGCCAAACATGGATGACGTTTATATTCCTATAATGCACTCGGCCATGGACCT  
 CGCTCCACTTCTGCCTCTTGAAGAGCCACCTGTGGAGACCTCTGATCAGCTG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209070 protein sequence  
 Red=Cloning site Green=Tags(s)

MNEIYNYDPETYHATLTHSVFVRLEGGTLRLSKPNKNISRRASYNETKPEVYISQKIYDLSDSKIYLVLP  
 KSLARKRIWNKKYPICIELGRQDDFMSKAQSDKEATEEKPPPEKELPSEDLKKPPQPQEGTKSSQRDPIIL  
 YLFGRTGREKEEWFRRFILASRLKSELRKPAGVSGSKSGLLPAHSRHSSPSGHLSHSRSSKGSVEEMMS  
 QPKQKELVGSVRQKMLLDYSVMGRCVPQDNRSRSPVQSAESSPTASKKLPEAPPSEEEEQEAWVNAL  
 LGRIWFDFLGEKYWSDVVSKKIQMKLSKIKLPYFMNELTLTELDMGVAVPKILQAFKPYVDHQGLWIDLE  
 MSYNGSFLMTLETKMNLTKLGKEPLVEALKVGEIGKEGPRAYCLADSDEESSSAGSSEEDDPPEPTAGDK  
 QPLPGAEGYVGGHRTSKIMRFVDKITKSKYFQKATETEFIKKKIEEVSNTPLLLTVEVQECRGLAVNIP  
 PPPTDRIWYGFRRKPPYVELKARPKLGEREYTLVHVTEWIEKKLEQELQKVFVMPNMDDVYIPIMHSAMD  
 RSTSCLLKEPPVETSDQL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** BC057406

**ORF Size:** 1734 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:** [BC057406](#), [AAH57406](#)

**RefSeq Size:** 3122 bp

**RefSeq ORF:** 1736 bp

**Locus ID:** 21763

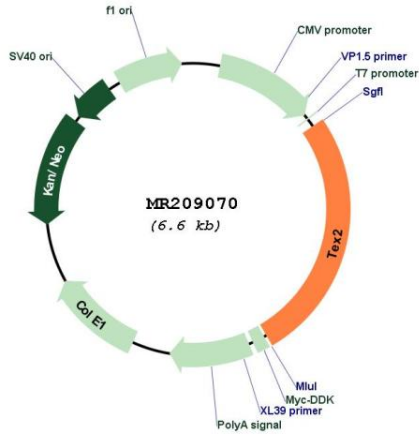
**Cytogenetics:** 11 69.46 cM

**MW:** 65.7 kDa

**Gene Summary:**

During endoplasmic reticulum (ER) stress or when cellular ceramide levels increase, may induce contacts between the ER and medial-Golgi complex to facilitate non-vesicular transport of ceramides from the ER to the Golgi complex where they are converted to complex sphingolipids, preventing toxic ceramide accumulation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209070