

## Recombinant Mouse Tgfb2 Protein, Myc/DDK-tagged

Cat. No. Tgfb2-6389M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Purified recombinant protein of mouse full-length transforming growth factor, beta 2 (cDNA clone MGC:7998 IMAGE:3585774), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species** Mouse

**Source** HEK293

**Description** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. Mice lacking a functional copy of this gene display developmental defects in multiple organs and perinatal lethality. Heterozygous mutant mice exhibit aortic root aneurysm. This gene encodes multiple isoforms that may undergo similar proteolytic processing.

**Molecular Mass** 29.1 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	Tgfb2 transforming growth factor, beta 2 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Tgfb2
<b>Synonyms</b>	Tgfb2; transforming growth factor, beta 2; Tgfb-2; BB105277; Tgf-beta; Tgf-beta2; transforming growth factor beta-2 proprotein
<b>Gene ID</b>	21808
<b>mRNA Refseq</b>	NM_009367
<b>Protein Refseq</b>	NP_033393
<b>UniProt ID</b>	P27090

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