

## Product datasheet for TP523213

### Bmp3 (NM\_173404) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse bone morphogenetic protein 3 (Bmp3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR223213 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MAGARGLLCLWLGYFCLNLAQQQRPNLHLPGLRETEPSDRATGGSPSPDLRPHDKVSEHMLWLWLYDRYS GS SRVQATRTPGSQPLPGPQPLRGNTVRSFRAAAAGTPQTKGLHTFNLTSLTKSENILSATLYFYVGELVNI SLSCPEPQGCSHHTQRQHIQIDLSAWILKSNQSQLLGHLSVDVVRPYRDSVSWLSKDITQLLRKAKQNEE FLIGFNITSRAHELPKRMLFFPEPYILVYANDAAISEPESVSSLQRHRDFTAGTGPRLD SHVREALSVE RRKKRSTGILLPLQNNELPGA EYQYKEEGAWEERKPYKSLQTQPPEKSRNKKKQRKGSHQKGQTLQFDE Q TLKKARRKQWVEPRNCARRYLKVD FADIGWSEWIISPKSFDAFYCSGACQFPMPKSLKPSNHATIQSIVR AVGVVSGIPEPCCVPEKMSSLSILFFDENKNVVLKVYPNMTVDSCACR  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-MYC/DDK
Predicted MW:	52.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.


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RefSeq: [NP\\_775580](#)

Locus ID: 110075

UniProt ID: [Q8BHE5](#)

RefSeq Size: 3112

Cytogenetics: 5 48.24 cM

RefSeq ORF: 1404

Synonyms: 9530029I04Rik; D630004D15R

**Summary:** 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 each subunit of the disulfide-linked homodimer. This protein suppresses osteoblast differentiation, and negatively regulates bone density, by modulating TGF-beta receptor availability to other ligands. Homozygous knockout mice for this gene exhibit increased bone density and volume, while overexpression of this gene in a transgenic mouse causes bone defects resulting in spontaneous rib fractures. This gene encodes distinct protein isoforms that may be similarly proteolytically processed. [provided by RefSeq, Jul 2016]