

## Recombinant Mouse Msx2 Protein, Myc/DDK-tagged

Cat. No. Msx2-4200M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length msh homeobox 2 (Msx2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Acts as a transcriptional regulator in bone development. Represses the ALPL promoter activity and antagonizes the stimulatory effect of DLX5 on ALPL expression during osteoblast differentiation. Probable morphogenetic role. May play a role in limb-pattern formation. In osteoblasts, suppresses transcription driven by the osteocalcin FGF response element (OCFRE). Binds to the homeodomain-response element of the ALPL promoter.
<b>Molecular Mass</b>	29.4 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<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

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Msx2 msh homeobox 2 [ Mus musculus (house mouse) ]

**Official Symbol** Msx2

**Synonyms** MSX2; homeobox, msh-like 2; homeobox protein MSX-2; homeo box, msh-like 2; homeobox protein Hox-8-1; Hox8; Hox-8; Hox8.1; BB122635

**Gene ID** 17702

**mRNA Refseq** NM\_013601

**Protein Refseq** NP\_038629

**UniProt ID** Q03358

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