

## Recombinant Human SOX2 protein, MYC/DDK-tagged

Cat. No. SOX2-562H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SOX2 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT).</p>
<b>Form</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	34.1 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

### GENE INFORMATION

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<b>Gene Name</b>	SOX2 SRY (sex determining region Y)-box 2 [ Homo sapiens ]
<b>Official Symbol</b>	SOX2
<b>Synonyms</b>	SOX2; SRY (sex determining region Y)-box 2; transcription factor SOX-2; transcription factor SOX2; SRY-related HMG-box gene 2; ANOP3; MCOPS3; MGC2413;
<b>Gene ID</b>	6657
<b>mRNA Refseq</b>	NM_003106
<b>Protein Refseq</b>	NP_003097
<b>MIM</b>	184429
<b>UniProt ID</b>	P48431
<b>Chromosome Location</b>	3q26.3-q27
<b>Pathway</b>	Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;
<b>Function</b>	DNA binding; DNA binding; miRNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding;

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