

Recombinant Mouse Sox2, His-tagged

Cat. No. Sox2-193M **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Transcription Factor SOX-2/SOX2-polyR is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Met319) of Mouse SOX2 fused with a polyhistidine tag at the C-terminus.

Species Mouse

Source E.coli

Description Human Sex Determining Region Y Box 2 (Sox2) belongs to a diverse family of structurally-related transcription factors whose primary structure contains a high mobility group box domain. SOX2 is one of the important transcription factors required in induced pluripotent stem cells. SOX2 regulates the expression of multiple genes involved in embryonic development, including FGF-4, YES-1, ZFP206. SOX2 may as a switch in neuronal development, keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation. It has been shown SOX2 can interact with PAX6.

AA Sequence MYNMMETELKPPGPQQASGGGGGGGNATAAATGGNQKNSPDRVKRPMNAFMVW
 SRGQRRKMAQEN PKMHNSEISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKEHP
 DYKYRPRRKTKTLMKKDKYTLP GLLAPGGNSMASGVGVGAGLGGGLNQRMDSY
 AHMNGWSNGSYSMMQEQLGYPQHPGLNAHGAAQ MQPMHRYVVSALQYNSMST
 SQTYMNGSPTYSMSYSQQGTPGMALGSMGSVVKSEASSPPVVTSS SHSRAPCQ
 AGDLRDMISMYLPGAIEVPEPAAPSRLHMAQHYQSGPVPGTAKYGTLP LSHM

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Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

GENE INFORMATION

Gene Name [Sox2 SRY-box containing gene 2 \[Mus musculus \]](#)

Official Symbol Sox2

Synonyms SOX2; SRY-box containing gene 2; transcription factor SOX-2; lcc; ysb; Sox-2;

Gene ID [20674](#)

mRNA Refseq [NM_011443](#)

Protein Refseq [NP_035573](#)

Pathway Dopaminergic Neurogenesis, organism-specific biosystem; PluriNetWork, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;

Function DNA binding; DNA binding; DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; chromatin binding; miRNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; transcription regulatory region DNA binding; transcription regulatory region sequence-specific DNA binding;

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