

## Recombinant Human SOX2 Protein (R40-D123), Tag Free

Cat. No. SOX2-1274H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GG-Sox2(R40-D123) Protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	R40-D123
<b>Description</b>	Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Binds to the proximal enhancer region of NANOG. Critical for early embryogenesis and for embryonic stem cell pluripotency. Downstream SRRT target that mediates the promotion of neural stem cell self-renewal. Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation. May function as a switch in neuronal development.
<b>Form</b>	Liquid
<b>Endotoxin</b>	< 0.01 EU per µg of the protein
<b>Purity</b>	90%
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Supplied as sterile. 50 mM Tris (pH 7.5), 150 mM NaCl, 5% glycerol
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	SOX2 SRY (sex determining region Y)-box 2 [ Homo sapiens (human) ]
<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

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