

## Active Recombinant Full Length Human SOX4 Protein, C-Flag-tagged

**Cat. No.** SOX4-493HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human SOX4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | This intronless gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins, such as syndecan binding protein (syntenin). The protein may function in the apoptosis pathway leading to cell death as well as to tumorigenesis and may mediate downstream effects of parathyroid hormone (PTH) and PTH-related protein (PTHrP) in bone development. The solution structure has been resolved for the HMG-box of a similar mouse protein. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | EMSA assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 47.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MVQQTNNAENTEALLAGESSDSGAGLELGIASSPTPGSTASTGGKADDP SWCKTPS<br>GHIKRP MN AFMVWS QIERRKIMEQSPDMHNAEISKRLGKRWKLKDS DKIPFIREAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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RLRLKHMADYPDYKYRPRKKVKSGNAN SSSSAAASSKPGEKGDKVGGSGGGGHG  
 GGGGGGSSNAGGGGGGASGGGANSKPAQKKSCGSKVAGGAGGG VSKPHAKLIL  
 AGGGGGGKAAAAAASFAAEQAGAAALLPLGAAADHHSLYKARTPSASASASSAA  
 SASAA LAAPGKHLAEKKVKRVYLFGGGLGTSSSPVGGVGAGADPSDPLGLYEEEGA  
 GCSPDAPSLSGRSSAASSPA AGRSPADHRGYASLRAASPAPSSAPSHASSSASSH  
 SSSSSSSGSSSSDDEFEDDLLDLNPSSNFESMSLG  
 SFSSSSALDRDLDFNFEPGSGSHFEFPDYCTPEVSEMISGDWLESSISNLVFTYSGP  
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                         |                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                                                                        |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                                               |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                |
| <b>Protein Families</b> | Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors |
| <b>Full Length</b>      | Full L.                                                                                                                                                         |

## GENE INFORMATION

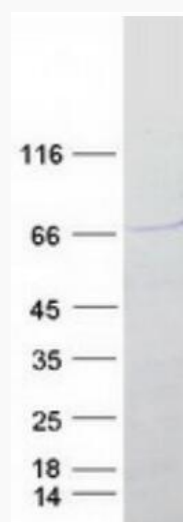
|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| <b>Gene Name</b>       | SOX4 SRY-box transcription factor 4 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | SOX4                                                         |

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|-----------------------|--------------|
| <b>Synonyms</b>       | CSS10; EVI16 |
| <b>Gene ID</b>        | 6659         |
| <b>mRNA Refseq</b>    | NM_003107.3  |
| <b>Protein Refseq</b> | NP_003098.1  |
| <b>MIM</b>            | 184430       |
| <b>UniProt ID</b>     | Q06945       |



Coomassie blue staining of purified SOX4 protein.