

## Recombinant Human FOXC2 protein, MYC/DDK-tagged

Cat. No. FOXC2-6160H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human FOXC2, fused with MYC/DDK tag at C-terminal, was expressed in HEK293 cells.                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | This gene belongs to the forkhead family of transcription factors which is characterized by a distinct DNA-binding forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in the development of mesenchymal tissues. |
| <b>Form</b>             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 53.5 kDa                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                |
| <b>Notes</b>            | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                                                                                                                           |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                           |

### GENE INFORMATION

 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

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | FOXC2 forkhead box C2 (MFH-1, mesenchyme forkhead 1) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>     | FOXC2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | FOXC2; forkhead box C2 (MFH-1, mesenchyme forkhead 1); FKHL14; forkhead box protein C2; MFH 1; MFH-1,mesenchyme forkhead 1; transcription factor FKH-14; mesenchyme fork head protein 1; forkhead-related protein FKHL14; forkhead, Drosophila, homolog-like 14; LD; MFH1; MFH-1;                                                                                                                                                                                                                         |
| <b>Gene ID</b>             | 2303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_005251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_005242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 602402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | Q99958                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 16q24.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Adipogenesis, organism-specific biosystem; Heart Development, organism-specific biosystem;                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Function</b>            | DNA binding, bending; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; chromatin DNA binding; double-stranded DNA binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; |

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