

## Recombinant Mouse Fgf2 protein, His/S-tagged

**Cat. No.** Fgf2-199M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Mouse Fgf2 fused with His/S tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.</p> |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | Store at -70 centigrade. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### GENE INFORMATION

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | Fgf2 fibroblast growth factor 2 [ Mus musculus ]                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>     | Fgf2                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>            | FGF2; fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2; Fgfb; bFGF; Fgf-2;                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene ID</b>             | 14173                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_008006                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_032032                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | P15655                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 3 B; 3 18.41 cM                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | Downstream signaling of activated FGFR, organism-specific biosystem; ESC Pluripotency Pathways, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1b ligand binding and activation, organism-specific biosystem; FGFR1c ligand binding and activation, organism-specific biosystem; |
| <b>Function</b>            | chemoattractant activity; cytokine activity; fibroblast growth factor binding; fibroblast growth factor receptor binding; fibroblast growth factor receptor binding; growth factor activity; growth factor activity; heparin binding; ligand-dependent nuclear receptor transcription coactivator activity; protein binding; voltage-gated calcium channel activity;                                                                                          |

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