

# Recombinant Full Length Human FGFR2 Protein, GST-tagged

**Cat. No.** FGFR2-4892HF    **Lot. No.** (See product label)

## SPECIFICATION

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| <b>Product Overview</b> | Human FGFR2 full-length ORF ( AAH39243.2, 1 a.a. - 723 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 723 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq]</p> |

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| <b>Molecular Mass</b>   | 105.27 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MGLTSTWRYGRGPGIGTVTMVSWGRFICLVVVTMATLSLARPSFSLVEDTTLEPEG<br>APYWTNTEKMEKRLHAVPAANTVKFRCPAGGNPMPTMRWLKNGKEFKQEHRI<br>YKVRNQHWSLIMESVVP SDKGN YTCV VENEYGSINH TYHLDVVERS<br>PHRPILQAGL PANASTVVGGDVEFVCKVYSDAQPHIQWIKHVEKNGSKYGP<br>DGLPYLKV LKAAGVN TTDKEIEVLYIRNVTFEDAGEYTCLAGNSIGISF<br>HSAWLT VLPAPGREKEITASPDYLEI AIYCIGVFLIACMVVTVILCRM<br>KNTTKKPDFSSQPAVHKLT KRIPLRRQVSAESSSSM NSNTPLVRITR<br>LSSTADTPMLAGVSEYELPEDPKWEFPRDKLT LGKPLGEGCFGQV<br>VMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLASEMEMMKMIGK<br>HENIINLLG ACTQDGPLYVIVEYASKGNLREYLRARRPPGMEYSYDINR<br>VP EEQMTFEDLV SCTY QLARGMEY LASQKCIHRDLAARNVLVTENN<br>VMKIADFG LARDINNIDYYKKT TNGRL PVKWM APEALFDRVYTHQSD<br>VWSFGVLMWEIFTLGGSPYPGIPVEELLKLLKEGHR MDKPANCTNEL<br>YMMMRDCWHAVPSQRPTFKQLVEDLDRILT LTTNEEYLDLSQPLE<br>QYSPSYPDTRSSCSSGDDSVFSPDPMPYEPCLPQYPHINGSVKT |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>        | FGFR2 fibroblast growth factor receptor 2 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| <b>Official Symbol</b> | <b>FGFR2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | FGFR2; fibroblast growth factor receptor 2; bacteria expressed kinase, BEK, CFD1, craniofacial dysostosis 1, Jackson Weiss syndrome, JWS, keratinocyte growth factor receptor, KGFR; CD332; CEK3; Crouzon syndrome; ECT1; K SAM; Pfeiffer syndrome; TK14; TK25; FGFR-2; FGF receptor; soluble FGFR4 variant 4; bacteria-expressed kinase; hydroxyaryl-protein kinase; keratinocyte growth factor receptor; BEK fibroblast growth factor receptor; protein tyrosine kinase, receptor like 14; BEK; JWS; CFD1; KGFR; BFR-1; K-SAM; FLJ98662; |
| <b>Gene ID</b>         | <b>2263</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | <b>NM_000141</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | <b>NP_000132</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>             | <b>176943</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>      | <b>P21802</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |