

## Recombinant Full Length Human FGFR2 Protein

Cat. No. FGFR2-4891HF Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human FGFR2 full-length ORF (NP\_000132.1) recombinant protein without tag.

**Species** Human

**Source** In Vitro Cell Free System

**ProteinLength** 203 amino acids

#### Description

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]

 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>Form</b>           | Liquid   |
| <b>Molecular Mass</b> | 92 kDa   |
| <b>AA Sequence</b>    | <p>MVSWGRFICLVVVTMATLSLARPSFSLVEDTTLEPEEPPTKYQISQPEVYVAAPGES<br/>           LEVRCLLKDAAVISWTKDGVHLGPNNRTVLIGEYLQIKGATPRDSGLYACTASRTVD<br/>           SETWYFMVNVTDAISSGDEDDTDGAEDFVSENSNNKRAPYWTNTEKMEKRLHAV<br/>           PAANTVKFRCPAGGNPMPTRWLKNGKEFKQEHRIGGYKVRNQHWSLIMESVVPS<br/>           DKGNYTCVENEYGSINHTYHLDVVERSHPRPILQAGLPANASTVVGGDVEFVCKV<br/>           YSDAQPHIQWIKHVEKNGSKYGPDGLPYLKVLAAGVNTTDKEIEVLYIRNVTFEDA<br/>           GEYTCLAGNSIGISFHSAWLTVLPAPGREKEITASPDYLEIAIYCIGVFLIACMVVTVILC<br/>           RMKNTTKKPDFSSQPAVHKLTKRIPLRRQVTVSAESSSSMNSNTPLVRITRRLSSTA<br/>           DTPMLAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQVVMMAEAVGIDKDKPKEA<br/>           VTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYAS<br/>           KGNLREYLRARRPPGMEYSYDINRVPEEQMTFKDLVSCYQLARGMEYLASQKCIH<br/>           RDLAARNVLVTENNVMKIADFGLARDINNIDYYKTTNGRLPVKWMapeALFDRVYT<br/>           HQSDVWSFGVLMWEIFTLGGSPYPGIPVEELFKLLKEGHRMDKPANCTNELYMMM<br/>           RDCWHAVPSQRPTFKQLVEDLDRILTTLTNEEYLDLSQPLEQYSPSPDTRSSCSS<br/>           GDDSVFSPDPMPYEPCLPQYPHINGSVKT</p> |
| <b>Applications</b>   | Antibody Production<br>Functional Study<br>Compound Screening  |
| <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> | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.  |

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## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | FGFR2 fibroblast growth factor receptor 2 [ Homo sapiens ]   |
| <b>Official Symbol</b> | FGFR2  |
| <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>         | 2263   |
| <b>mRNA Refseq</b>     | NM_000141  |
| <b>Protein Refseq</b>  | NP_000132  |
| <b>MIM</b>             | 176943   |
| <b>UniProt ID</b>      | P21802   |

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