

## Product datasheet for **TP315533**

### FGFR3 (NM\_000142) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human fibroblast growth factor receptor 3 (FGFR3), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215533 representing NM_000142 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGAPACALALCVAVAIVAGASSESLGTEQRVVGRAAEVPGPEPGQQEQLVFGSGDAVELSCPPPGGGPM  
G  
PTVWVKDGTGLVPSERVLVGPQRLQVLNASHEDSGAYSCRQRLTQRVLCHFVSRVTDAPSSGDDEDED  
E  
AEDTGVDTGAPYWTRPERMDKKLLAVPAANTVRFRCPAAGNPTPSISWLKNGREFRGEHRIGGIKLRHQQ  
WSLVMESVPSDRGNYTCVENKFGSIRQTYTLDVLERSPHRPILQAGLPANQTAVLGSDVEFHCKVYSD  
AQPHIQWLKHVEVNGSKVGPDPGTPYVTVLKTAGANTTDKELEVLSLHNVTEDAGEYTCLAGNSIGFSHH  
SAWLWVLPAAEELVEADEAGSVYAGILSYGVGFFLFILVVAAVTLCRLRSPPKKGLGSPTVHKISRFPLK  
RQVSLESNASMSSNTPLVRIARLSSGEGPTLANVSELELPADPKWELSRARLTGKPLGEGCFGQVWMAE  
AIGIDKDRAAKPVTVAVKMLKDDATDKDLSDLVSEMEMMKMIGKHKNIIILLGACTQGGPLYVLVEYAAK  
GNLREFLRARRPPGLDYSFDTCKPPEEQLTFKDLVSCAYQVARGMEYLASQKCIHRDLAARNVLVTEDNV  
MKIADFGLARDVHNLDYYKKTNGRLPVKWMPEALFDRVYTHQSDVWSFGVLLWEIFTLGSPYPGIPV  
EELFKLLKEGHRMDKPANCTHDLYMIMRECWHAAPSQRPTFKQLVEDLDRVLTVTSTDEYLDLSAPFEQY  
SPGGQDTPSSSSSGDDSVFAHDLLPPAPPSSGGSRT

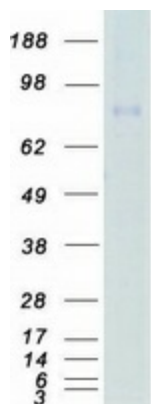
**TRRLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	85.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<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>RefSeq:</b>	<u>NP_000133</u>
<b>Locus ID:</b>	2261
<b>UniProt ID:</b>	<u>P22607</u>
<b>RefSeq Size:</b>	4093
<b>Cytogenetics:</b>	4p16.3
<b>RefSeq ORF:</b>	2418
<b>Synonyms:</b>	ACH; CD333; CEK2; HSGFR3EX; JTK4
<b>Summary:</b>	This gene encodes a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist 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 binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. [provided by RefSeq, Aug 2017]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Bladder cancer, Endocytosis, MAPK signaling pathway, Pathways in cancer, Regulation of actin cytoskeleton

**Product images:**


Coomassie blue staining of purified FGFR3 protein (Cat# TP315533). The protein was produced from HEK293T cells transfected with FGFR3 cDNA clone (Cat# [RC215533]) using MegaTran 2.0 (Cat# [TT210002]).