

Recombinant Full Length Human TCF4 Protein, C-Flag-tagged

Cat. No. TCF4-742HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TCF4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	71.6 kDa
AA Sequence	MHHQQRMAALGTDKELSDLLDFSAMFSPVSSGKNGPTSLASGHFTGSNVEDRSS SGSWGNGGHPSPSRN YGDGTPYDHMTSRDLGSHDNLSPPFVNSRIQSKTERGSY SSYGRESNLQGCHQQSLLGGDMDMGNPGTLS PTKPGSQYYQYSSNNPRRRPLHS SAMEVQTKKVRKVPPGLPSSVYAPSASTADYNRDSPGYPSSKPATST FPSSFFMQ DGHSSDPWSSSSGMNQPGYAGMLGNSSHIPQSSSYCSLHPHERLSYPSSHSSADI

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NSSLPPM STFHRSGTNHYSTSSCTPPANGTDSIMANRSGAAGSSQTGDALGKAL
 ASIYSPDHTNNSFSSNPSTPVG SPPSLSAGTAVWSRNGGQASSSPNYEGLHSLQ
 SRIEDRLERLDDAIHVLRNHAVGPSTAMPGGHGMHG IIGPSHNGAMGGLGSGYG
 TGLLSANRHSLMVGTHREDGVALRGSHSLLPNQVPVPQLPVQSATSPDLNPP QDP
 YRGMPPLGQQSVSSGSSEIKSDDEGDENLQDTKSSDKKLDKDDKDIKSITRSRS
 SNNDDEDLTPE QKAEREKERRMANNARERLRVRDINEAFKELGRMVQLHLKSDKP
 QTKLLILHQAVAVILSLEQQVRERNL
 NPKAACLKRREEEKVSSEPPPLSLAGPHPGMGDASNHMGQMTRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
Full Length	Full L.

GENE INFORMATION

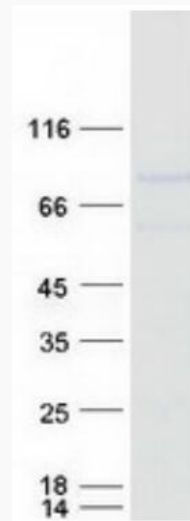
Gene Name	TCF4 transcription factor 4 [Homo sapiens (human)]
Official Symbol	TCF4

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Synonyms	E2-2; ITF2; PTHS; SEF2; CDG2T; FECD3; ITF-2; SEF-2; TCF-4; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; bHLHb19
Gene ID	6925
mRNA Refseq	NM_001083962.2
Protein Refseq	NP_001077431.1
MIM	602272
UniProt ID	P15884



Coomassie blue staining of purified TCF4 protein.

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