

## Product datasheet for TP310817L

### EGF (NM\_001963) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human epidermal growth factor (beta-urogastrone) (EGF), 1 mg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC210817 protein sequence  
Red=Cloning site Green=Tags(s)

MLLTLIILLPVVSKFSFVLSAPQHWSCPEGLTAGNGNSTCVGPAPFLIFSHGNSIFRIDTEGTNYEQLV  
VDAGVSVIMDFHYNEKRIYWVDLERQLLQRFVFLNGSRQERVNCIEKNVSGMAINWINEEVIWSNQEGII  
TVTDMKGNNSHILLSALKYPANVAVDVPERFIFWSSEVAGSLYRADLDGVGVKALLETSEKITAVSLDVL  
DKRLFWIQYNREGSNSLICSDYDGGSVHISKHPTQHNLFAMSLFGDRIFYSTWKMKTIIWANKHTGKDM  
VRINLHSSFVPLGELKVVHPLAQPKAEDDTWEPEQKLCCLRKGNCSSTVCGQDLQSHLCMCAEGYALSRD  
RKYCEDVNECAFWNHGCTLGCKNTPGSYYCTCPVGFVLLPDGKRCHQLVSCPRNVSECSHDCVLTSEGPL  
CFCPEGSVLERDGTCSGCSSPDNNGGCSQLCVPLSPVSWECDCFPGYDLQLDEKSCAASGPQPFLFANS  
QDIRHMHFDGTDYGTLLSQQMGMVYALDHPVENKIYFAHTALKWIERANMDGSQRERLIEEGVDVPEGL  
AVDWIGRRFYWTDGRKSLIGRSDLNGRSKIITKENISQPRGIHVHPMAKRLFWTDTGINPRIESSLQG  
LGRLVIASSDLIWPSSGITIDFLTDKLYWCDKQSVIEMANLDGSKRRRLTQNDVGHFPAVAVFEDYVWFS  
DWAMPVIRVNRKRTGKDRVRLQGSMLKPSSLVWVHPLAKPGADPCLYQNGGCEHICKRRLGTAWCSCREG  
FMKASDGKTCALDGHQLLAGGEVDLKNQVTPLDILSKTRVSEDNITESQHMLVAEIMVSDQDDCAPVGC  
SMYARCISEGEDATCCLKGFAGDGKLCSDIDECEMGVPVCPASSKCINTEGGYVCRCSSEGYQGDGIHC  
LDIDECQLGVHSCGENASCTNTEGGYTCMCAGRLSEPLICPDSTPPPHLREDDHHYSVRNSDSECLSH  
DGYCLHDGVCMYIEALDKYACNCVVGIGERCYRDLKWWELRHAGHGQQKQVIVAVCVVVLVMLLLLS  
LWGAHYRTQKLLSKNPKNPYEESSRDVRSRRPADTEDGMSSCPQPWFVVIKEHQDLKNGGQPVAGEDGQ  
AADGSMQPTSWRQEPQLCGMGTEQGCWIPVSSDKGSCPQVMERSFHMPSTGTQTLEGGVEKPHSLLSANP  
LWQQRALDPPHQMELTQ

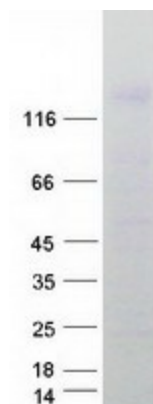
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK  
**Predicted MW:** 131.6 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining



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<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<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>	<a href="#">NP_001954</a>
<b>Locus ID:</b>	1950
<b>UniProt ID:</b>	<a href="#">P01133</a>
<b>RefSeq Size:</b>	5600
<b>Cytogenetics:</b>	4q25
<b>RefSeq ORF:</b>	3621
<b>Synonyms:</b>	HOMG4; URG
<b>Summary:</b>	<p>This gene encodes a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been associated with the growth and progression of certain cancers. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]</p>
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane
<b>Protein Pathways:</b>	Bladder cancer, Cytokine-cytokine receptor interaction, Endocytosis, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

**Product images:**

Coomassie blue staining of purified EGF protein (Cat# [TP310817]). The protein was produced from HEK293T cells transfected with EGF cDNA clone (Cat# [RC210817]) using MegaTran 2.0 (Cat# [TT210002]).