

## Product datasheet for TP310932L

### EP4 (PTGER4) (NM\_000958) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human prostaglandin E receptor 4 (subtype EP4) (PTGER4), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210932 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MSTPGVNSSASLSPDRLNSPVTIPAVMFIFGVGNLVAIWVLCRSRKEQKETTFFYTLVCGLAVTDLLGTL LVSPVTIATYMKGQWPGGQPLCEYSTFILLFFSLSGLSIICAMSVERYLAINHAYFYSHYVDKRLAGLTL FAVYASNVLFCALPNMGLGSSRLQYPTDWCFIDWTTNVTAAHAASYMYAGFSSFLILATVLCNVLVCGAL LRMHRQFMRRTSLGTEQHHAAAAASVASRGHPAASPALPRLSDFRRRRSFRRRIAGAEIQMVILLIATSLV VLICSIPLVVRVFNQLYQPSLEREVSKNPNLQAIRIASVNPILDPWIYILLRKTIVLSKAIEKIKCLFCR IGGSRERSGQHCSQSRTSSAMSGHSRFSISRELKEISSTSQTLLPDLSPDLSENGLGGRNLLPGVPG MGLAQEDTTLRLRISETSDSSQGQDSESVLLVDEAGGSGRAGPAPKGSSLQVTFPSETLNLSEKCI
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	52.9 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_000949</a></u>



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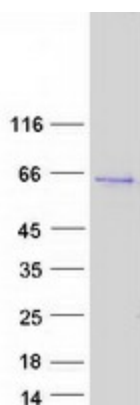
Locus ID:	5734
UniProt ID:	<a href="#">P35408</a> , <a href="#">A0PJF5</a>
RefSeq Size:	3432
Cytogenetics:	5p13.1
RefSeq ORF:	1464
Synonyms:	EP4; EP4R

**Summary:** The protein encoded by this gene is a member of the G-protein coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). This receptor can activate T-cell factor signaling. It has been shown to mediate PGE2 induced expression of early growth response 1 (EGR1), regulate the level and stability of cyclooxygenase-2 mRNA, and lead to the phosphorylation of glycogen synthase kinase-3. Knockout studies in mice suggest that this receptor may be involved in the neonatal adaptation of circulatory system, osteoporosis, as well as initiation of skin immune responses. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

### Product images:



Coomassie blue staining of purified PTGER4 protein (Cat# [TP310932]). The protein was produced from HEK293T cells transfected with PTGER4 cDNA clone (Cat# [RC210932]) using MegaTran 2.0 (Cat# [TT210002]).