

## Product datasheet for **TP315158L**

### EGLN1 (NM\_022051) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human egl nine homolog 1 (C. elegans) (EGLN1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215158 representing NM_022051 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MANDSGGPGGPPSPSERDRQYCELCGKMENLLRCSRCSFYCCKEHQRQDWKKHKLVCQGSEALGHGVG PHQHSGPAPPAVPPPRAGAREPRKAAARRDNASGDAAKGKVKAKPPADPAAAAASPCRAAAGGQGSAAVAA EAEPGKEPPARSSLFQEKANLYPPSNTPGDALSPGGGLRPNGQTKPLPALKLALEYIVPCMNKHGICVV DDFLGKETGQQIGDEVRLHDTGKFTDGQLVSKSDSSKDIRGDKITWIEGKEPGCETIGLLMSSMDDLII RHCNGKLGSYKINGRTKAMVACYPNGTGYVRHVDNPNNGDGRVCVTIYLNKDWDKAVSGGILRIFPEGK AQFADIEPKFDRLFFWSDRRNPHEVQPAYATRYAITWYFDADERARAKVKYLTGEKGVRELNKPSDS VGKDVF</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	45.8 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_071334</a></u>



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Locus ID: 54583

UniProt ID: [Q9GZT9](#), [R4SCQ0](#)

RefSeq Size: 7102

Cytogenetics: 1q42.2

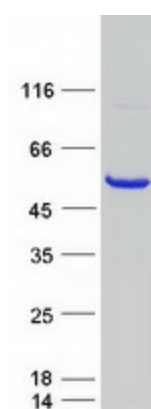
RefSeq ORF: 1278

Synonyms: C1orf12; ECTY3; HALAH; HIF-PH2; HIFPH2; HPH-2; HPH2; PHD2; SM20; ZMYND6

**Summary:** The protein encoded by this gene catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is a transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellular oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is a key regulatory event that targets HIF subunits for proteasomal destruction via the von Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECTY3). [provided by RefSeq, Nov 2009]

**Protein Pathways:** Pathways in cancer, Renal cell carcinoma

### Product images:



Coomassie blue staining of purified EGLN1 protein (Cat# [TP315158]). The protein was produced from HEK293T cells transfected with EGLN1 cDNA clone (Cat# [RC215158]) using MegaTran 2.0 (Cat# [TT210002]).