

## Product datasheet for TP304170

### ID4 (NM\_001546) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human inhibitor of DNA binding 4, dominant negative helix-loop-helix protein (ID4), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204170 representing NM_001546 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MKAVSPVRPSGRKAPSGCGGGELALRCLAHEHGSLGGSAAAAAAAAAARCKAAEAADEPALCLQCDMND  
CYSRLRRLVPTIPPNNKKVSKVEILQHVIDYILDQLALETHPALLRQPPPPAPPHHPAGTCPAAPPTPL  
TALNTDPAGAVNKQGDSILCR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	16.4 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_001537</a></u>
Locus ID:	3400
UniProt ID:	<u><a href="#">P47928</a></u>



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RefSeq Size: 2389

Cytogenetics: 6p22.3

RefSeq ORF: 483

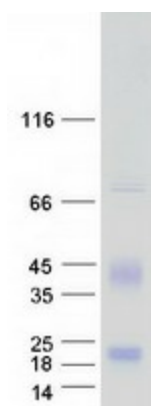
Synonyms: bHLHb27; IDB4

**Summary:** This gene encodes a member of the inhibitor of DNA binding (ID) protein family. The encoded protein lacks DNA binding ability, and instead regulates gene expression through binding to and inhibiting basic helix-loop-helix transcription factors. This protein has been implicated in the regulation of diverse cellular processes that play a role in development and tumorigenesis. [provided by RefSeq, Aug 2017]

**Protein Families:** ES Cell Differentiation/IPS, Transcription Factors

**Protein Pathways:** TGF-beta signaling pathway

### Product images:



Coomassie blue staining of purified ID4 protein (Cat# TP304170). The protein was produced from HEK293T cells transfected with ID4 cDNA clone (Cat# [RC204170]) using MegaTran 2.0 (Cat# [TT210002]).