

## Product datasheet for **TP305324M**

### ID2 (NM\_002166) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human inhibitor of DNA binding 2, dominant negative helix-loop-helix protein (ID2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205324 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMNDCYSKLKELVPSIPQNKKVSKMEILQHVID YILDQLIALDSHPTIVSLHHQRPQGQNQASRTPLTTLNTDISILSLQASEFPSELMSNDSKALCG
	<b>TR</b> TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	14.7 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:	<a href="#">NP_002157</a>
Locus ID:	3398
UniProt ID:	<a href="#">Q02363</a> , <a href="#">Q53T66</a>
RefSeq Size:	1402



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Cytogenetics: 2p25.1

RefSeq ORF: 402

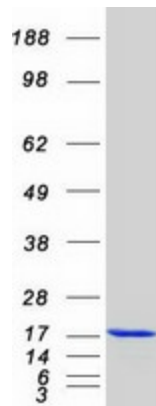
Synonyms: bHLHb26; GIG8; ID2A; ID2H

**Summary:** The protein encoded by this gene belongs to the inhibitor of DNA binding family, members of which are transcriptional regulators that contain a helix-loop-helix (HLH) domain but not a basic domain. Members of the inhibitor of DNA binding family inhibit the functions of basic helix-loop-helix transcription factors in a dominant-negative manner by suppressing their heterodimerization partners through the HLH domains. This protein may play a role in negatively regulating cell differentiation. A pseudogene of this gene is located on chromosome 3. [provided by RefSeq, Aug 2011]

**Protein Families:** ES Cell Differentiation/IPS, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors

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

### Product images:



Coomassie blue staining of purified ID2 protein (Cat# [TP305324]). The protein was produced from HEK293T cells transfected with ID2 cDNA clone (Cat# [RC205324]) using MegaTran 2.0 (Cat# [TT210002]).