

Product datasheet for **TP305733M**

DR1 (NM_001938) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human down-regulator of transcription 1, TBP-binding (negative cofactor 2) (DR1), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC205733 protein sequence Red=Cloning site Green=Tags(s) |

MASSSGNDDDLTIPRAAINKMIKETLPNVRVANDARELVNCCTEFIHLISSEANEICNKSEKKTISPEH
VIQALESGLFGSYISEVKEVLQECKTVALKRRKASSRLENLGIPEEELLRQQQLFAKARQQQAELAQQE
WLQMQQAAQQAQLAAASASASNQAGSSQDEEDDDDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 19.3 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>NP_001929</u> |
| Locus ID: | 1810 |
| UniProt ID: | <u>Q01658</u> , <u>Q658N3</u> |



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RefSeq Size: 3222

Cytogenetics: 1p22.1

RefSeq ORF: 528

Synonyms: NC2; NC2-BETA; NC2B; NCB2

Summary: This gene encodes a TBP- (TATA box-binding protein) associated phosphoprotein that represses both basal and activated levels of transcription. The encoded protein is phosphorylated in vivo and this phosphorylation affects its interaction with TBP. This protein contains a histone fold motif at the amino terminus, a TBP-binding domain, and a glutamine- and alanine-rich region. The binding of DR1 repressor complexes to TBP-promoter complexes may establish a mechanism in which an altered DNA conformation, together with the formation of higher order complexes, inhibits the assembly of the preinitiation complex and controls the rate of RNA polymerase II transcription. [provided by RefSeq, Jul 2008]

Protein Families: Transcription Factors

Product images:



Coomassie blue staining of purified DR1 protein (Cat# [TP305733]). The protein was produced from HEK293T cells transfected with DR1 cDNA clone (Cat# [RC205733]) using MegaTran 2.0 (Cat# [TT210002]).