

## Product datasheet for **TP304087L**

### TIGAR (NM\_020375) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human chromosome 12 open reading frame 5 (C12orf5), 1 mg |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC204087 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)    |

MARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMRKQTMHGIL  
ERSKFCKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREECPVFTPPGGETLDQVKMRGIDFFFLC  
QLILKEADQKEQFSQGPSNCLETSLAEIFPLGKNHSSKVNSDSGIPGLAASVLVSHGAYMRSFLDYFL  
TDLKCSLPATLSRSELM SVTPNTGMSLFIINFEEGREVKPTVQCICMNLQDHLNGLTETR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 29.9 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:        | <a href="#">NP_065108</a>  |
| Locus ID:      | 57103  |
| UniProt ID:    | <a href="#">Q9NQ88</a>   |



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RefSeq Size: 8237

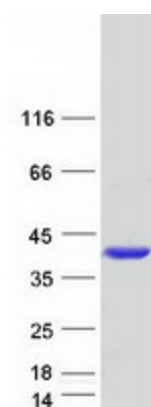
Cytogenetics: 12p13.32

RefSeq ORF: 810

Synonyms: C12orf5; FR2BP

**Summary:** This gene is regulated as part of the p53 tumor suppressor pathway and encodes a protein with sequence similarity to the bisphosphate domain of the glycolytic enzyme that degrades fructose-2,6-bisphosphate. The protein functions by blocking glycolysis and directing the pathway into the pentose phosphate shunt. Expression of this protein also protects cells from DNA damaging reactive oxygen species and provides some protection from DNA damage-induced apoptosis. The 12p13.32 region that includes this gene is paralogous to the 11q13.3 region. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified TIGAR protein (Cat# [TP304087]). The protein was produced from HEK293T cells transfected with TIGAR cDNA clone (Cat# [RC204087]) using MegaTran 2.0 (Cat# [TT210002]).