

## Product datasheet for PH304087

### TIGAR (NM\_020375) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	C12orf5 MS Standard C13 and N15-labeled recombinant protein (NP_065108)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204087
Predicted MW:	30.1 kDa
Protein Sequence:	>RC204087 protein sequence Red=Cloning site Green=Tags(s)  MARFALTVVRHGGETRFNKEKIIQGGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMRKTQTMHGIL ERSKFCKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREECPVFTPPGGETLDQVKMRGIDFFFLC QLILKEADQKEQFSQGSNSCLETSLAEIFPLGKNHSSKVNSDSGIPGLAASVLVYSHGAYMRS�FDYFL TDLKCSLPATLSRSELSVTPNTGMSLFIIINFEEGREVKPTVQCICMNLQDHLNGLTETR  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_065108</a>
RefSeq Size:	8237
RefSeq ORF:	810
Synonyms:	C12orf5; FR2BP
Locus ID:	57103
UniProt ID:	<a href="#">Q9NQ88</a>

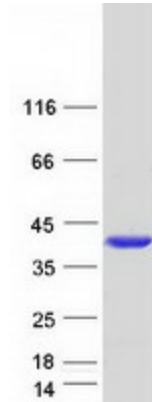


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Cytogenetics: 12p13.32

**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]).