

## Product datasheet for **SC320794**

### TIGAR (NM\_020375) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TIGAR (NM\_020375) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TIGAR  
**Synonyms:** C12orf5; FR2BP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_020375.2  
GCGGCGCGGGGCCACCGACGGGACGCGGCTCCGGGAACATGGCTCGCTTCGCTCTGACTG  
TTGTCCGCATGGAGAAACAAGATTTAAACAAGGAGAAAATAATCCAAGGACAAGGAGTAG  
ATGAACCTCTTTTCAGAACTGGATTTAAACAAGCAGCAGCTGCTGGTATATTTCTGAATA  
ATGTGAAGTTTACTCATGCTTTTCCAGTGATCTCATGAGGACAAAGCAGACCATGCATG  
GAATTTTGAGAGAAGCAAATTTTGCAAAGATATGACGGTAAAGTATGACTCAAGACTTC  
GGGAAAGGAAATACGGGTTGTAGAAGGCAAAGCGCTAAGTGAGCTGAGGGCCATGGCCA  
AAGCAGCCAGGGAAGAGTGCCCTGTGTTACACCGCCCGGAGGAGAGACGCTGGACCAGG  
TGAAAAATGCGTGAATAGACTTTTTTGAATTTCTTTGTCAACTAATCCTGAAAGAAGCGG  
ATCAAAAAGAACAGTTTTCCCAAGGATCTCCAAGCAACTGTCTGAAAACCTCTTTGGCAG  
AGATATTTCTTTAGGAAAAATCACAGCTCTAAAGTTAATTCAGACAGCGGTATTCCAG  
GATTAGCAGCCAGTGTCTTAGTTGTGAGTCACGGTGCTTACATGAGAAGTCTGTTTGATT  
ATTTTCTGACTGACCTTAAGTGTTCCTTACCAGCCACTCTGAGCAGATCTGAACTTATGT  
CAGTCACTCCCAATACAGGGATGAGTCTCTTTATCATAAACTTTGAGGAAGGAAGAGAAG  
TTAAACCAACGGTTCAGTGTATTTGTATGAACCTACAGGATCATCTAAATGGACTGACTG  
AAACTCGTAAGGTTAAATCTGCATCAAATCTAACCATTTTGAGCCTCTGAAGGGAGTG  
CCATTGGCTTTATTTACTTCTCCTCTGCTAGTTCTGATTTGGAAACAGTTAAAAGCCA  
ATTTTTAGCTCCAGTGAACCATAGCCACATAAACTTTAATGGACAACCATATAGAATT  
AACTATTTTGTCTAAGTACAGTTGGCATTTCAGAAATAATTTTACCACCTGTAGAT  
GTCATCTGGATTGCACATGGATGATGAAGGAAGTCAAGCATTGAAAGTTGGGGGATTAA  
TAACCTTGTACAAACGGTTTCTTTTTCATTTTAGCCTATTTAATGGCTATTGGTAAAGAT  
ACTGTATGTTTTAGTATCTCATCCAGTCTTAGAAGAAAGAAATGGTTTATAATCCCAG  
TACATGTTTATATTGACTGTGTTATATTTTTAAATCCTTTAAATAAAAAATCCTTATAAG  
TTTATGTAAGCAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_020375
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_020375.2</a> , <a href="#">NP_065108.1</a>
<b>RefSeq Size:</b>	8237 bp
<b>RefSeq ORF:</b>	813 bp
<b>Locus ID:</b>	57103
<b>UniProt ID:</b>	<a href="#">Q9NQ88</a>
<b>Cytogenetics:</b>	12p13.32
<b>Domains:</b>	PGAM
<b>Gene Summary:</b>	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]