

## Product datasheet for SC313245

### TIA1 (NM\_022173) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TIA1 (NM_022173) Human Untagged Clone
Tag:	Tag Free
Symbol:	TIA1
Synonyms:	ALS26; TIA-1; WDM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313245 representing NM_022173. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGACGAGATGCCAAGACTCTACGTCGGTAACCTTTCCAGAGATGTGACAGAAGCTCTAATT
CTGCAACTCTTTAGCCAGATTGGACCTTGTAATAAACTGCAAAATGATTATGGATACAGCTGGAAATGAT
CCCTATTGTTTTGTGGAGTTTCATGAGCATCGTCATGCAGCTGCAGCATTAGCTGCTATGAATGGACGG
AAGATAATGGGTAAAGGAAGTCAAAGTGAATTGGGCAACAACCCCTAGCAGTCAAAAGAAAGATACAAGC
AGTAGTACCGTTGTCAGCACACAGCGTTTACAAGATCATTCCATGTCTTTGTTGGTGATCTCAGCCCA
GAAATTCAACTGAAGATATAAAAGCTGCTTTTGCACCATTTGGAAGAATATCAGATGCCGAGTGGTA
AAAGACATGGCAACAGGAAAGTCTAAGGGATATGGCTTTGTCTCTTTTCAACAAATGGGATGCTGAA
AACGCCATTCAACAGATGGTGGCCAGTGGCTTGGTGAAGACAAATCAGAACTAACTGGCAACCCGA
AAGCCTCCCGCTCCAAAGAGTACATATGAGTCAAATACCAACAGCTATCATATGATGAGTTGTAAT
CAGTCTAGTCCAAGCAACTGTACTGTATACTGTGGAGGTGTTACTTCTGGGCTAACAGAACTAATG
CGTCAGACTTTTTACCATTGGACAAATAATGGAAATTCGAGTCTTTCCAGATAAAGGATATTCATTT
GTTCCGTTCAATCCCATGAAAGTGCAGCACATGCAATGTTTCTGTTAATGGTACTACCATTGAAGGT
CATGTTGTGAAATGCTATTGGGGCAAAGAACTCTTGATATGATAAATCCCGTGAACAGCAGAATCAA
ATTGGATATCCCAACCTTATGGCCAGTGGGCCAGTGGTATGGAAATGCACAACAAATGGCCAGTAT
ATGCCTAATGGTTGGCAAGTTCCTGCATATGGAATGTATGGCCAGGCATGGAACCAAGGATTTAAT
CAGACACAGTCTTCTGCACCATGGATGGGACCAAATTATGGAGTGAACCCGCTCAAGGGCAAAATGGC
AGCATGTTGCCAATCAGCCTTCTGGGTATCGAGTGGCAGGGTATGAAACCCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_022173
<b>Insert Size:</b>	1161 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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_022173.2</a>
<b>RefSeq Size:</b>	4653 bp
<b>RefSeq ORF:</b>	1161 bp
<b>Locus ID:</b>	7072
<b>UniProt ID:</b>	<a href="#">P31483</a>
<b>Cytogenetics:</b>	2p13.3
<b>Domains:</b>	RRM, RRM_1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	43 kDa

**Gene Summary:**

The product encoded by this gene is a member of a RNA-binding protein family and possesses nucleolytic activity against cytotoxic lymphocyte (CTL) target cells. It has been suggested that this protein may be involved in the induction of apoptosis as it preferentially recognizes poly(A) homopolymers and induces DNA fragmentation in CTL targets. The major granule-associated species is a 15-kDa protein that is thought to be derived from the carboxyl terminus of the 40-kDa product by proteolytic processing. Alternative splicing resulting in different isoforms has been found for this gene. [provided by RefSeq, May 2017]

Transcript Variant: This variant (2) includes exon 5, which is missing in transcript variant 1, resulting in the longer isoform (2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.