

## Product datasheet for **SC313200**

### TIA1 (NM\_022037) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TIA1 (NM\_022037) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TIA1  
**Synonyms:** ALS26; TIA-1; WDM  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_022037 edited  
 ATGGAGGACGAGATGCCCAAGACTCTATACGTCGGTAACCTTTCCAGAGATGTGACAGAA  
 GCTCTAATTCTGCAACTCTTTAGCCAGATTGGACCTTGTA AAAACTGCAAAATGATTATG  
 GATACAGCTGGAAATGATCCCTATTGTTTTGTGGAGTTTCATGAGCATCGTCATGCAGCT  
 GCAGCATTAGCTGCTATGAATGGACGGAAGATAATGGGTAAAGGAAGTCAAAGTGAATTGG  
 GCAACAACCCCTAGCAGTCAAAAGAAAGATACAAGCAATCATTTCCATGTCTTTGTTGGT  
 GATCTCAGCCCAGAAATTACAAGTGAAGATATAAAAGCTGCTTTTGCACCATTTGGAAGA  
 ATATCAGATGCCCGAGTGGTAAAAGACATGGCAACAGGAAAGTCTAAGGGATATGGCTTT  
 GTCTCCTTTTTCAACAAATGGGATGCTGAAAACGCCATTCAACAGATGGGTGGCCAGTGG  
 CTTGGTGAAGACAAATCAGAACTAACTGGGCAACCCGAAAGCCTCCCGCTCAAAGAGT  
 ACATATGAGTCAAATACCAAACAGCTATCATATGATGAGGTTGTAATCAGTCTAGTCCA  
 AGCAACTGTACTGTATACTGTGGAGGTGTTACTTCTGGGCTAACAGAACAATAATGCCT  
 CAGACTTTTTCCACATTTGGACAATAATGGAATTCGAGTCTTTCCAGATAAAGGATAT  
 TCATTTGTTTCGGTTCAATTTCCATGAAAGTGCAGCACATGCAATTGTTTCTGTTAATGGT  
 ACTACCATTGAAGGTCATGTTGTGAAATGCTATTGGGGCAAAGAACTCTTGATATGATA  
 AATCCCGTGCAACAGCAGAATCAAATGGATATCCCCAACCTTATGGCCAGTGGGGCCAG  
 TGGTATGGAATGCACAACAAATGGCCAGTATATGCCTAATGGTTGGCAAGTTCCTGCA  
 TATGGAATGTATGGCCAGGCATGGAACCAAGGATTTAATCAGACACAGTCTTCTGCA  
 CCATGGATGGGACCAAATTTATGGAGTGAACCGCCTCAAGGGCAAATGGCAGCATGTTG  
 CCCAATCAGCCTTCTGGGTATCGAGTGGCAGGGTATGAAACCCAGTGA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_022037  
**Insert Size:** 4600 bp



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**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**OTI Annotation:** 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.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_022037.1](#), [NP\\_071320.1](#)

**RefSeq Size:** 2357 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 7072

**UniProt ID:** [P31483](#)

**Cytogenetics:** 2p13.3

**Domains:** RRM, RRM\_1

**Protein Families:** Druggable Genome

**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 (1) is missing exon 5, which is included in transcript variant 2, resulting in the shorter isoform (1). 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.