Product datasheet for RC215053L4
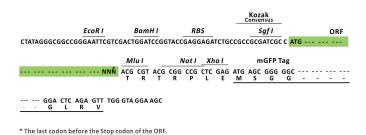
TIA1 (NM_022037) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIA1 (NM_022037) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	TIA1
Synonyms:	ALS26; TIA-1; WDM
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215053).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:

```
           Sgf I              ORF           Mlu I
--- GCG ATC GC C   ATG ---//--- NNN*   ACG CGT ---
```

```
            EcoR I      BamH I      RBS          Sgf I          ORF
CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG --- --- ---
                                              Kozak
                                            Consensus

                      Mlu I          Not I    Xho I        mGFP Tag
--- --- --- --- --- --- NNN* ACG CGT ACG CGG CCG CTC GAG ATG AGC GGG GGC --- --- --- ---
                               T   R   T   R   P   L   E    M   S   G   G   -   -   -   -

--- --- GGA CTC AGA GTT TGG GTA GGA AGC
  -   -   G   L   R   V
```

* The last codon before the Stop codon of the ORF.

ACCN:	NM_022037
ORF Size:	1125 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 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_022037.2
RefSeq Size:	4620 bp
RefSeq ORF:	1128 bp
Locus ID:	7072
UniProt ID:	P31483
Cytogenetics:	2p13.3
Domains:	RRM, RRM_1
Protein Families:	Druggable Genome
MW:	41.8 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]

Product images:

Circular map for RC215053L4