

## Product datasheet for SC324211

### Talin 1 (TLN1) (NM\_006289) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Talin 1 (TLN1) (NM_006289) Human Untagged Clone
Tag:	Tag Free
Symbol:	Talin 1
Synonyms:	ILWEQ; talin-1; TLN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_006289.2  
 AGTGGCCGAGAGAGTGTCTGAAGGGAGGGCGAGGCCGAGCCCGAGGGCGACCCGAGAAGC  
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 AAAAAAAAAAAAA

<b>Restriction Sites:</b>	ECoRI-NOT
<b>ACCN:</b>	NM_006289
<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>	<u><a href="#">NM_006289.2</a></u> , <u><a href="#">NP_006280.2</a></u>
<b>RefSeq Size:</b>	8187 bp
<b>RefSeq ORF:</b>	7626 bp
<b>Locus ID:</b>	7094
<b>UniProt ID:</b>	<u><a href="#">Q9Y490</a></u>
<b>Cytogenetics:</b>	9p13.3
<b>Domains:</b>	B41, I_LWEQ
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Focal adhesion

**Gene Summary:**

This gene encodes a cytoskeletal protein that is concentrated in areas of cell-substratum and cell-cell contacts. The encoded protein plays a significant role in the assembly of actin filaments and in spreading and migration of various cell types, including fibroblasts and osteoclasts. It codistributes with integrins in the cell surface membrane in order to assist in the attachment of adherent cells to extracellular matrices and of lymphocytes to other cells. The N-terminus of this protein contains elements for localization to cell-extracellular matrix junctions. The C-terminus contains binding sites for proteins such as beta-1-integrin, actin, and vinculin. [provided by RefSeq, Feb 2009]