

Product datasheet for **RC231849**

Translin (TSN) (NM_001261401) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Translin (TSN) (NM_001261401) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TSN
Synonyms: BCLF-1; C3PO; RCHF1; REHF-1; TBRBP; TRSLN
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231849 representing NM_001261401
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTGTGAGCGAGATCTTCGTGGAGCTGCAGGGCTTTTGGCTGCCGAGCAGGACATCCGAGAGGAAA
TCAGAAAAGTTGTACAGAGTTTAGAACAACAGCTCGAGAGATTTAACTCTACTGCAAGGGTCCATCA
GGGTGCTGGGTTTCAGGACATCCAAAGAGGTGTTTGAAGCTCGAGAACATTTGGTACAGTAAAAACA
CATCTAACATCTTTGAAGACAAATTCCTGCTGAACAGTATTACAGATTCATGAGCACTGGAGGTTTG
TGTTGCAGCGCTTGGTCTTCTTGGCAGCATTTGTGTGATTTGGAAACAGAAACTAGTGACTCGAGA
AGCAGTTACAGAAATCTTGGCATCGAGGCTGTCTGTCAACAGCGTGACTGCTGGAGACTACTCCCGACC
CCTCCACATCTCCACCTTCATCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231849 representing NM_001261401
Red=Cloning site Green=Tags(s)
MSVSEIFVELQGFLAAEQDIRREIRKVVQSLEQTAREIL TLLQGVHQGAGFQDIPKRCLKAREHFGTVKT
HLTSLKTKFPAEQYRFHEHWRFLVQLVFLAAFVVYLETETLV TREATVEILGIEAVCQRDCWRLLPT
PPHLHLHQ

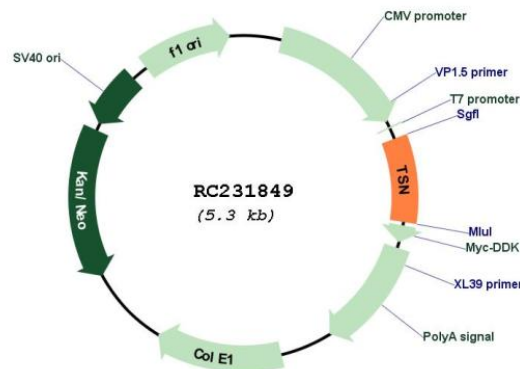
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:

Plasmid Map:


ACCN: NM_001261401

ORF Size: 444 bp

OTI Disclaimer: 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:	<ol style="list-style-type: none">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:	<u>NM_001261401.1, NP_001248330.1</u>
RefSeq Size:	3328 bp
RefSeq ORF:	447 bp
Locus ID:	7247
UniProt ID:	<u>Q15631</u>
Cytogenetics:	2q14.3
MW:	17.7 kDa
Gene Summary:	This gene encodes a DNA-binding protein which specifically recognizes conserved target sequences at the breakpoint junction of chromosomal translocations. Translin polypeptides form a multimeric structure that is responsible for its DNA-binding activity. Recombination-associated motifs and translin-binding sites are present at recombination hotspots and may serve as indicators of breakpoints in genes which are fused by translocations. These binding activities may play a crucial role in chromosomal translocation in lymphoid neoplasms. This protein encoded by this gene, when complexed with translin-associated protein X, also forms a Mg ion-dependent endoribonuclease that promotes RNA-induced silencing complex (RISC) activation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2012]