

## Product datasheet for **RG201804**

### Translin (TSN) (NM\_004622) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Translin (TSN) (NM_004622) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSN
Synonyms:	BCLF-1; C3PO; RCHF1; REHF-1; TBRBP; TRSLN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201804 representing NM_004622 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGTGAGCGAGATCTTCGTGGAGCTGCAGGGCTTTTTGGCTGCCGAGCAGGACATCCGAGAGGAAA  
TCAGAAAAGTTGTACAGAGTTTAGAACAAACAGCTCGAGAGATTTAACTCTACTGCAAGGGTCCATCA  
GGGTGCTGGGTTTCAGGACATCCAAAGAGGTGTTTGAAGCTCGAGAACATTTGGTACAGTAAAAACA  
CATCTAACATCTTTGAAGACAAATTCCTGCTGAACAGTATTACAGATTCATGAGCACTGGAGGTTTG  
TGTTGCAGCGCTTGGTCTTCTTGGCAGCATTTGTGTGATTTGGAAACAGAAACACTAGTACTCGAGA  
AGCAGTTACAGAAATCTTGGCATTGAGCCAGATCGGGAGAAAGGATTTTCATCTGGATGTAGAAGATTAT  
CTCTCAGGAGTTCTAATCTTGGCAGTGAAGTGTGCGAGGCTGTCTGTCAACAGCGTACTGCTGGAGACT  
ACTCCCGACCCCTCCACATCTCCACCTTCATCAATGAGCTGGATTCGGTTTTTCGCTTCTCAACCTGAA  
AAATGACTCCCTGAGGAAGCGCTACGACGGATTGAAATATGACGTGAAGAAAGTAGAGGAAGTGCTCTAT  
GATCTCTCCATCCGGGGCTTTAATAAGGAGACGGCAGCAGCTTGTGTTGAAAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201804 representing NM\_004622  
Red=Cloning site Green=Tags(s)

```
MSVSEIFVELQGFLAAEQDIR EEIRKVVQSLEQTAREIL TLLQGVHQGAGFQDIPKRCLKAREHFGTVKT
HLTSLKTKFPAEQYRFHEHWRFLQRLVFLAAFVYVLETTLV TREAVTEILGIEPDREKGFHLDVEDY
LSGVLILASELSRLSVNSVTAGDYSRPLHISTFINELDSGFRLLNLKNDLSLRKRYDGLKYDVKKVEEVVY
DLSIRGFNKETA AACVEK
```

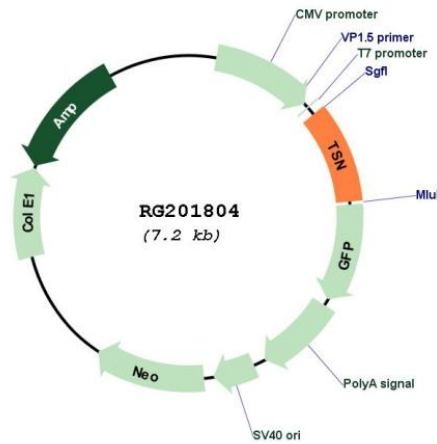
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_004622

**ORF Size:** 684 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_004622.3</a>
<b>RefSeq Size:</b>	3408 bp
<b>RefSeq ORF:</b>	687 bp
<b>Locus ID:</b>	7247
<b>UniProt ID:</b>	<a href="#">Q15631</a>
<b>Cytogenetics:</b>	2q14.3
<b>Domains:</b>	Translin
<b>Gene Summary:</b>	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]