

## Product datasheet for RC237496

### TAL1 (NM\_001290404) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAL1 (NM_001290404) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAL1
Synonyms:	bHLHa17; SCL; tal-1; TCL5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237496 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

RCATGACCGAGCGGCCGCCGAGCGAGGCGGCTCGCAGTGACCCCCAGCTAGAGGGACGGGACGCGGCCGA  
GGCCAGCATGGCCCCCGCACCTGGTCTGCTGAACGGCGTCGCAAGGAGACGAGCCGCGGCCGCA  
GCGGAGCCCCAGTCATCGAACTGGGCGCGCGGAGGCCCGGGGGCGGCCCTGCCGTGGGGCGGGC  
CCGCGAGAGACTTAAAGGGCCGCGACGCGGCGACGGCCGAAGCGCGCCATCGGTGCCACCACCGAGT  
GTGCAGACCTCCGGGCCCGCCCCGCCCCGCCCCGCTCGGTTACAGCGGAGCTGCCGGCGACGGC  
CGCATGGTGCAGCTGAGTCTCCCGCGCTGGCTGCCCGCCCGCCCCGCGCGCTGCTCTACAGCC  
TCAGCCAGCCGCTGGCCTCTCTCGGCAGCGGTTCTTTGGGGAGCCGGATGCCTTCCCTATGTTCCACC  
CAACAATCGAGTGAAGAGGAGACCTTCCCCCTATGAGATGGAGATTACTGATGGTCCCCACACAAAGTT  
GTGCGGCGTATCTTACCAACAGCCGGGAGCGATGGCGGCAGCAGAATGTGAACGGGGCCTTTGCCGAGC  
TCCGCAAGCTGATCCCCACACATCCCCGGACAAGAAGCTCAGCAAGAATGAGATCTCCGCTGGCCAT  
GAAGTATATCAACTTCTTGGCCAAGCTGCTCAATGACCAGGAGGAGGAGGGCACCCAGCGGGCCAAGACT  
GGCAAGGACCCCTGTGGTGGGGCTGGTGGGGTGGAGGTGGGGGAGGGGTGGCGCGCCCCAGATGACC  
TCCTGCAAGACGTGCTTTCCCCAACTCCAGCTGCGGCAGCTCCCTGGATGGGGCAGCCAGCCGGACAG  
CTACACGGAGGAGCCCGCCCAAGCACACGGCCCGCAGCCTCCATCTGCCATGCTGCCTGCCCGCCGAT  
GGAGCCGGCCCTCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237496 protein sequence  
 Red=Cloning site Green=Tags(s)

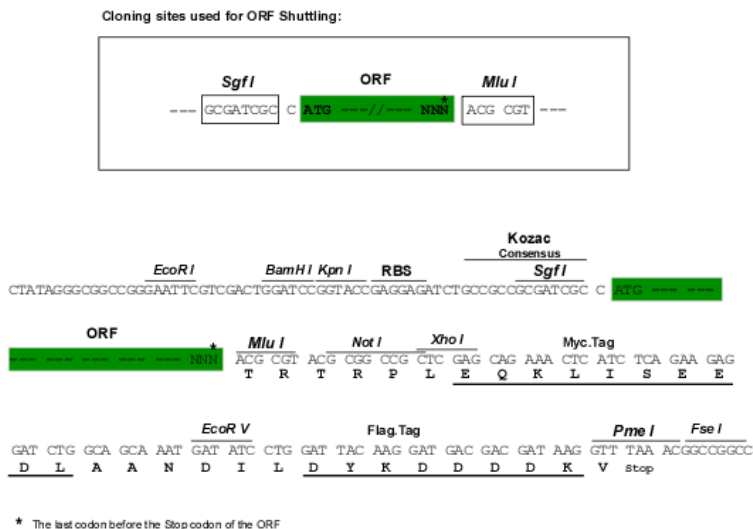
X\*PSGRRARRLAVTPS\*RDGTRPRPAWPPRTWSC\*TASPRRRAARPQRSPQSSNWARAEARGAALPVGAA  
 PRET\*RAATRRRPKRAIGCPPSCADLPGPPRPPRPPRLQRSCPATAAWCS\*VLPRWLPPPPAARCSTA  
 SASRWPLSAAGSLGSRMPSLCSPTTIE\*RGDLPPMRWLLMVPKLCGVSSPTAGSDGGSRM\*TGPLPS  
 SAS\*SPHIPRTRSSARMRSSAWP\*SISTSWPSCSMTRRRRAPSGPRLARTLWWGLVGVEVGEGVARPQMT  
 SCKTCFPPTAAAAAPWMGQPARTATRRSPRPSTRPAASILPCCLPPMEPAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2981\\_g12.zip](https://cdn.origene.com/chromatograms/mg2981_g12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001290404

**ORF Size:** 993 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:**

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\\_001290404.1](#), [NP\\_001277333.1](#)

**RefSeq Size:** 4779 bp

**RefSeq ORF:** 996 bp

**Locus ID:** 6886

**UniProt ID:** [P17542](#)

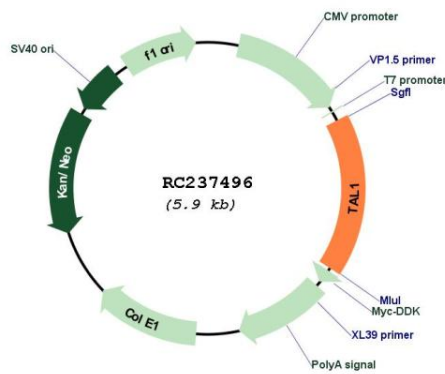
**Cytogenetics:** 1p33

**Protein Families:** Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

**MW:** 34.3 kDa

**Gene Summary:** Implicated in the genesis of hemopoietic malignancies. It may play an important role in hemopoietic differentiation. Serves as a positive regulator of erythroid differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC237496