

Product datasheet for **RG222628**

TAL1 (NM_003189) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TAL1 (NM_003189) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TAL1
Synonyms: bHLHa17; SCL; tal-1; TCL5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222628 representing NM_003189
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGAGCGGCCGCCGAGCGAGGCGGCTCGCAGTGACCCCGCTAGAGGGACGGGACGCGGCCGAGG
CCAGCATGGCCCCCGCACCTGGTCCTGCTGAACGGCGTCGCCAAGGAGACGAGCCGCGCGCCGAGC
GGAGCCCCAGTCATCGAACTGGCGCGCGCGGAGGCCCGGGGGCGGCCCTGCCGGTGGGGCGGCGCC
GCGAGAGACTTAAAGGGCCGCGACGCGGCGACGGCCGAAGCGCGCCATCGGGTCCACCACCGAGCTGT
GCAGACCTCCCGGGCCCGCCCGCCCGCCCGCCCGCTCGGTTACAGCGGAGCTGCCCGGCGACGCGCC
CATGGTGCAGCTGAGTCCTCCCGCGCTGGCTGCCCGCCCGCCCGCCCGCGCGCTGCTCTACAGCCTC
AGCCAGCCGCTGGCCTCTCTCGGCAGCGGGTCTTTGGGAGCCGGATGCCTTCCCTATGTTACACCACCA
ACAATCGAGTGAAGAGGAGACCTTCCCCCTATGAGATGGAGATTACTGATGGTCCCCACACCAAAGTTGT
GCGGCGTATCTTCAACAACAGCCGGGAGCGATGGCGGCAGCAGAATGTGAACGGGGCCTTTGCCGAGCTC
CGCAAGCTGATCCCCACACATCCCCGGACAAGAAGCTCAGCAAGAATGAGATCTCCGCTGGCCATGA
AGTATATCAACTTCTTGGCCAAGCTGCTCAATGACCAGGAGGAGGAGGGCACCCAGCGGGCAAGACTGG
CAAGGACCCTGTGGTGGGGCTGGTGGGGTGGAGGTGGGGGAGGGGGCGCGCCCGCCAGATGACCTC
CTGCAAGACGTGCTTTCCCCAACTCCAGCTGCGGCAGCTCCCTGGATGGGGCAGCCAGCCCGGACAGCT
ACACGGAGGAGCCCGCCCAAGCACACGGCCCGCAGCCTCCATCCTGCCATGCTGCCTGCCCGCCGATGG
AGCCGGCCCTCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222628 representing NM_003189
 Red=Cloning site Green=Tags(s)

MTERPPSEAAARSDPQLEGRDAAEASMAPPHLVLLNGVAKETSRAAAAEPVIELGARGGPGGGPAGGGGA
 ARDLKGRDAATAEARHRVPTTELCRPPGPAPAPASVT AELPGDGRMVQLSPPALAAPGRALLYSL
 SQPLASLGSFFGEPDAFPMFTTNNRVKRRPSPYEM EITDGPHTKVRRIF TNSRERWRQNVNGAF AEL
 RKLIPHTPPDKKLSKNEILRLAMKYINFLAKLLNDQEEEGTQRAKTGKDPVVGAGGGGGGGGAPPDDL
 LQDVLSPNSSCGSSLDGAASPSYTEEPAPKHTARSLHPAMLPAADGAGPR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003189

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_003189.5](#)

RefSeq Size: 5000 bp

RefSeq ORF: 996 bp

Locus ID: 6886

UniProt ID: [P17542](#)

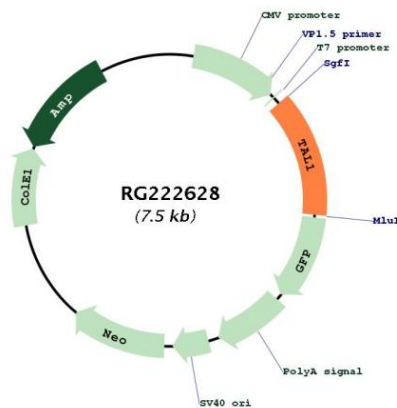
Cytogenetics: 1p33

Domains: HLH

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

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 RG222628