

Product datasheet for **RG218530**

T (NM_003181) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	T (NM_003181) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	T
Synonyms:	SAVA; T; TFT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218530 representing NM_003181 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCCCCTGGCACCAGAGCGCGGGAAAGAGCCTGCAGTACCGAGTGGACCACCTGCTGAGCGCCG
TGGAGAATGAGCTGCAGGCGGGCAGCGAGAAGGGCGACCCACAGAGCGGAACTGCGGTGGGCTGGA
GGAGAGCGAGCTGTGGCTGCGCTTCAAGGAGCTACCAATGAGATGATCGTGACCAAGAACGGCAGGAGG
ATGTTTCCGGTGTGAAGGTGAACGTGTCTGGCCTGGACCCCAACGCCATGTACTCCTTCTGCTGGACT
TCGTGGCGGGGACAACCACCGCTGGAAGTACGTGAACGGGAATGGGTGCCGGGGCAAGCCGGAGCC
GCAGGCGCCAGCTGCGTCTACATCCACCCGACTCGCCAACTTCGGGGCCACTGGATGAAGGCTCCC
GTCTCCTTCAGCAAAGTCAAGCTCACCAACAAGCTCAACGGAGGGGGCCAGATCATGCTGAACTCCTTGC
ATAAGTATGAGCCTCGAATCCACATAGTGAAGTGGGGTCCACAGCGCATGATCACCAGCCACTGCTT
CCCTGAGACCCAGTTCATAGCGGTGACTGCTTATCAGAACGAGGAGATCAGACTCTTAAATTAAGTAC
AATCCATTTGCAAAGCTTTCCTTGATGCAAAGGAAAGAAGTATCACAAGAGATGATGGAGGAACCCG
GAGACAGCCAGCAACCTGGTACTCCAATCAGGGGGTGGCTTCTTCTGGAACCAGCACCCCTGTGTCC
ACCTGCAAATCCTCATCCTCAGTTTGGAGGTGCCCTCTCCCTCCCTCCACGCACAGCTGTGACAGGTAC
CCAACCTGAGGAGCCACCGTCTCACCTACCCAGCCCTATGCTCATCGGAACAATTCTCCAACCT
ATTCTGACAACCTACCTGCATGTTTATCCATGCTGCAATCCCATGACAATTGGTCCAGCCTTGGAAATGCC
TGCCCATCCCAGCATGCTCCCCGTGAGCCACAATGCCAGCCACCTACCAGCTCCAGTCAGTACCCAGC
CTGTGGTCTGTGAGCAACGGCGCGCTACCCCGGGCTCCAGGCAGCAGCCGTGTCCAACGGGCTGGGG
CCCAGTTCTTCCGGGCTCCCCCGCGCACTACACACCCCTCACCCATCCGGTCTCGGCGCCCTTCTCCTC
GGGATCCCCTGTACGAAGGGGCGCCGCGGCCACAGACATCGTGGACAGCCAGTACGACGCCGCGCAGCC
CAAGGCCGCTCATAGCCTCATGGACACCTGTGTGCCACCTTCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218530 representing NM_003181
Red=Cloning site Green=Tags(s)

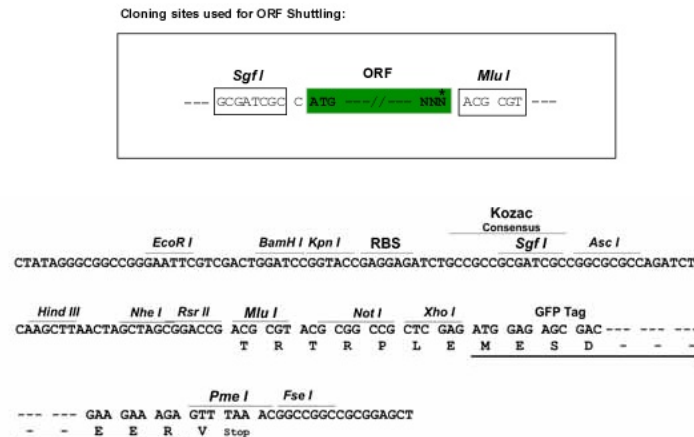
MSSPGTESAGKSLQYRVDHLLSAVENELQAGSEKGDPTERELRVGLEESELWLRFKELTNEMIVTKNGRR
MFPVLKVNVSGLDPNAMYSFLDDVAADNHRWKYVNGEWVPGGKPEPQAPSCVYIHPDSPNFGAHWMKAP
VSF SKVKLTNKLNGGGQIMLNSLHKYEPRIHIVRVGGPQRMITSHCFPETQFIAVTAYQNEEITALKIKY
NPF AKAFLDAKERSDHKEMMEEPGDSQQPGYSQSGGWL L PGTSTL CPPANPHPQFGGALSLPSTHSCDRY
PTLRSHRSPYPSPYAHRRNNSPTYDNSPACLSMLQSHDNWSSLGMPAHP SMLPVSHNASPPTSSSQYPS
LWSVSN GAVTPGSQAAA VSNGLGAQFFR GSPAHYTPLTHPV SAPSSSGSPLYEGAAAATDIVDSQYDAAA
QGRLIASWTPVSPPSM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_003181

ORF Size: 1308 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_003181.2](#), [NP_003172.1](#)

RefSeq Size: 2518 bp

RefSeq ORF: 1308 bp

Locus ID: 6862

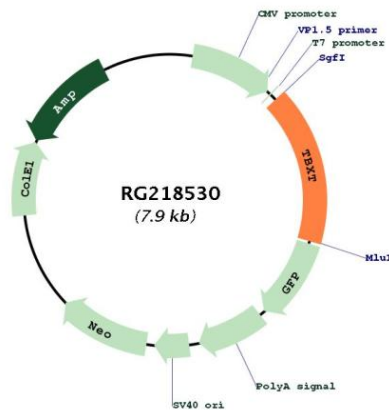
UniProt ID: [O15178](#)

Cytogenetics: 6q27

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: The protein encoded by this gene is an embryonic nuclear transcription factor that binds to a specific DNA element, the palindromic T-site. It binds through a region in its N-terminus, called the T-box, and effects transcription of genes required for mesoderm formation and differentiation. The protein is localized to notochord-derived cells. Variation in this gene was associated with susceptibility to neural tube defects and chordoma. A mutation in this gene was found in a family with sacral agenesis with vertebral anomalies. [provided by RefSeq, Sep 2018]

Product images:



Circular map for RG218530