

Product datasheet for **RC211126**

TUT1 (NM_022830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUT1 (NM_022830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TUT1
Synonyms:	PAPD2; RBM21; STARPAP; TENT1; TUTase; URLC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC211126 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGCGGTGGATTTCGATGTGAATCGCTGCCGCGTGGGGGTTCCGCTGCTGCCTCTGCCACGTTA
 CTACAGCCAACCGACCCAGCCTTGATGCCCACTTGGGAGGCAGAAAGCACCGGCACCTGGTAGAACTACG
 AGCTGCGAGAAAGGCCAGGACTTCAAGTGTGTTTGTCACTGGCTTTCCAGGGATGTGGATTCTGCT
 CAGCTCTCTGAGTACTTCTAGCATTTGGACCTGTGGCAGTGTGTGTCATGGACAAGGACAAGGAGTGT
 TTGCCATTGTGGAGATGGGGGACGTGGGTGCTCGAGAGGCTGTCTTGTACAGTCCCAGCACAGCCTGGG
 AGGACATCGCTGCGTGTCCGCCACGGGAGCAGAAGGAGTTCAGAGCCCGCCTCCAAATCCCCCAA
 GGAGCGGCCCCGACAGTACCAGCTGGCCAAAGCGTAGCTGAGGCTGCAGACGTGGGGGCACAAATGA
 TAAAGCTTGTGGGCTGAGGGAGTTGTCCGAGGCCGAGCGGCAGCTTCGCAGCCTAGTGGTGGCCCTGAT
 GCAGGAGTCTTACAGAGTTCTCCCTGGCTGTGTGGTCCACCCTTTTGGCTCTTCCATAAATAGCTTC
 GATGTCCATGGCTGTGATCTTGACCTCTTCTTGGATCTGGGTGACTTGAAGAGCCCCAGCCAGTCCCAA
 AGGCTCCAGAATCTCATCGCTGGACTCGGCCCTGGCTTCCCCACTGGACCTCAAGCCCTGGCCTGCAC
 CCCAGCTTCCCCTCCAGATTCAACCTCCTGCTTCTCCCAGGATTCTGAAGCCCTGGACTTTGAAACC
 CCTTCTCCTCCTGGCGCCCCAACTCCGACTCTGCCTTGGCCTCCGAGACCTTGTCTTCTCCCAGT
 CTCTGCCTCCAGCTTCACTACTGCTAGAGGACAGGGAAGAGGGGGACCTGGGAAGGCCTCGAACTAGC
 AGAGACCCCAAAGGAGGAGAAAGCAGAGGGGGCAGCAATGCTGGAGCTGGTGGGATCCATTCTCCGGGC
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 GGCTTTCAGGTCTCCACGGTGTGTCTCCCTCAGTAACCGGCTGGCCCTGCATAACTCCCGTTTCTGTAG
 TCTCTGCTCTGAGCTGGATGGTTCGAGTCCGGCCCTCGTGTACACCCTCCGCTGCTGGGCTCAGGGTCGG
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 TGCGGGAGGGTCAGGCACTGCCTGTGGCAGGGGGCCTGCCTTCTAATCTCTGGGAGGTCTGCGCCTTG
 CCCCTGAATCTCAGGACCTTTTACCTGAGTCAATGTGCGAGCCAATGTGACCAGCCGGGTGGCT
 GGGCGCCTACAGAACTGTGCCGAGCAGCAGCAATTACTGCCGAAGCCTCCAGTACCAGCGCCGTTCT
 CCCGGGTGCGGACTGGGGGCTGCTCCCTCTTCTGCAGCCAGCTCCCCAGCTCCCTGCTCTGTCTAC
 GCCGATCCCTTTACCCCTTGACCCCTTCAACAGCTCACTGCTGCCCTGGTGCAGGTATTAGGGAAGCA
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 AGGGAGGGACAAGCAAAAGACTCAAAGTAGATGGACAGAAAAGTGTGTGAGGAGGGGAAGAGGAGCA
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 TGGCACCGAGTGTGGCAAGGGCGCGGCGAGCCGTAGACGCTTGCAGCAGCAAAACCAAGGAGGGAGCTG
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 GAGTGGTGGCGAAGAGAGGCCAGAACTGAGCCCTGCTGAGCTTTGTGGCGTCTGTCTCCCGGCTGAC
 CGAATGCTCACTGTGACCCGCTCCAGGATCCCCAAGGCTGTTCCCTGATCTCCATCATTTCTTACAG
 TTTTCTCCTCAAGCAATTCGACATCTCAAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211126 protein sequence
Red=Cloning site Green=Tags(s)

MAAVSDVESLPRGGFRCLCHVTTANRPSLDAHLGGRKHRHLVELRAARKAQGLRSVFVSGFPRDVDSA
QLSEYFLAFGPVASVMDKDKGVFAIVEMGDVGAREAVLSQSQHSLLGGHRLRVRPREQKEFQSPASKSPK
GAAPDSHQLAKALAEADVGAQMIKLVGLRELSEAERQLRSLVVALMQEVFTEFFPGCVVHPFGSSINSF
DVHGCDDLDFLDLGDLEEPQPVKAPESPSLDSALASPLDPQALACTPASPPDSQPPASPDSEALDFET
PSSSLAPQTPDSALASETLASPQSLPPASPLLEDREEDLGKASELAETPKEEKAEGAAMLELVGSILRG
CVPGVYRVQTPVSARRPVVKFCHRPSSGLHGDVSLSNRLALHNSRFLSLCSELDGRVRPLVYTLRCWAQGR
GLSGSGPLL SNYAL TLLVIYFLQTRDPPVLPVLSQLTQKAGEGEQVEVDGWDCSFRDASRLEPSINVEP
LSSLLAQFFSCVSCWDLRGSLLSLREGQALPVAGGLPSNLWEGLRLGPLNLQDPFDL SHNVAANVTSRVA
GRLQNCRAAANYCRSLQYQRRSSRGRDWGLLPLLQPSSPSLLSATPIPLAPFTQLTAALVQVFREA
LGCHIEQATKRTRSEGGGTGESSQGGT SKRLKVDGQKNCCEEGKEEQGCAGDGGEDRVEEMVIEVGEMV
QDWAMQSPGQPGDLPLTTGKHGAPGEEGQPSHAALAERGPKGHEAAQEQSGEAGKASLPSSASWRCAL
WHRVWQGRRRRARRRLQQQTEGAGGGAGTRAGWLATEAQVTQELKGLSGGEERPETEPLLSFVASVSPAD
RMLTVTPLQDPQGLFPDLHHFLQVFLPQAIRHLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

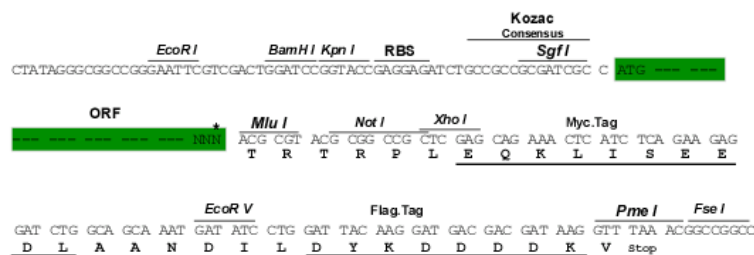
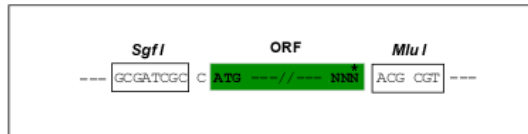
https://cdn.origene.com/chromatograms/mk6585_h01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

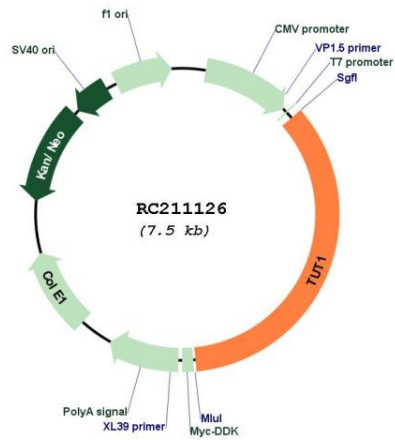
Cloning sites used for ORF Shuttling:



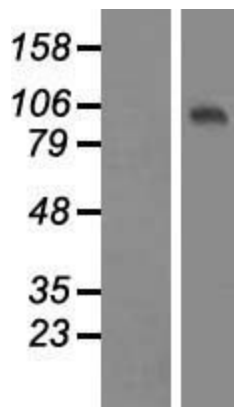
* The last codon before the Stop codon of the ORF

ACCN:	NM_022830
ORF Size:	2622 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_022830.1 , NP_073741.1
RefSeq Size:	2844 bp
RefSeq ORF:	2625 bp
Locus ID:	64852
UniProt ID:	Q9H6E5
Cytogenetics:	11q12.3
MW:	93.8 kDa
Gene Summary:	This gene encodes a nucleotidyl transferase that functions as both a terminal uridylyltransferase and a nuclear poly(A) polymerase. The encoded enzyme specifically adds and removes nucleotides from the 3' end of small nuclear RNAs and select mRNAs and may function in controlling gene expression and cell proliferation.[provided by RefSeq, Apr 2009]

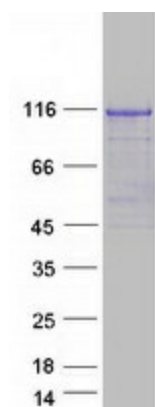
Product images:



Circular map for RC211126



Western blot validation of overexpression lysate (Cat# [LY411544]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211126 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TUT1 protein (Cat# [TP311126]). The protein was produced from HEK293T cells transfected with TUT1 cDNA clone (Cat# RC211126) using MegaTran 2.0 (Cat# [TT210002]).