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Product datasheet for RC214497

TET3 (NM_144993) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TET3 (NM_144993) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TET3
Synonyms:	hCG_40738
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214497 representing NM_144993
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ATGGACTCAGGGCCAGTGTACCATGGGGACTCACGGCAGCTAAGCGCCTCAGGGGTGCCGGTCAATGGTG
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CAGATTGTCCTGGAAGGGCTTAGGTCCCCAGCCTCCCAGGAAGTGCAGGCTCATCCACCGGCCCCTCTGC
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Protein Sequence:

>RC214497 representing NM_144993
Red=Cloning site Green=Tags(s)

MDSGPVYHGDSRQLSASGVPVNGAREPAGPSLLGTGGPWRVDQKPDWEAAPGPAHTARLEDAHDLVAFSA
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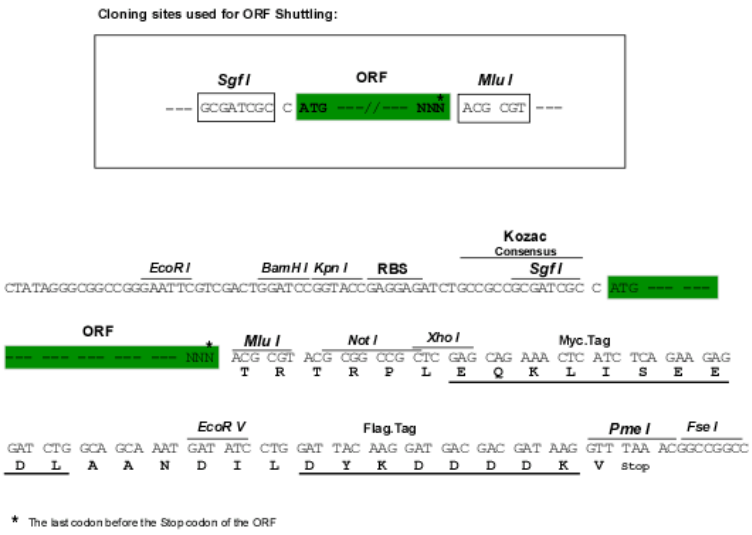
Chromatograms: https://cdn.origene.com/chromatograms/ja2005_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144993

ORF Size: 4980 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_144993.1, NP_659430.1

RefSeq Size: 10983 bp

RefSeq ORF: 4982 bp

Locus ID: 200424

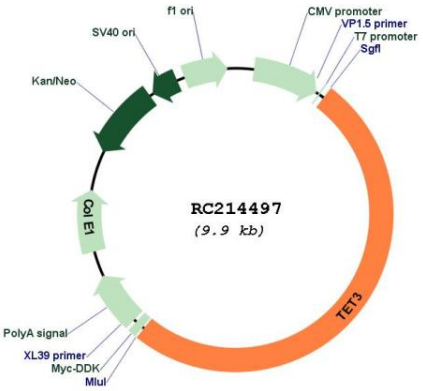
Cytogenetics: 2p13.1

Protein Families: Transcription Factors

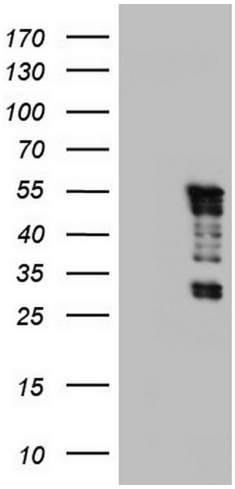
MW: 179.8 kDa

Gene Summary: Members of the ten-eleven translocation (TET) gene family, including TET3, play a role in the DNA methylation process (Langemeijer et al., 2009 [PubMed 19923888]).[supplied by OMIM, Nov 2010]

Product images:



Circular map for RC214497



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TET3 (Cat# RC214497, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TET3(Cat# [TA803972]).