

Product datasheet for RC217520

TTF1 (NKX2-1) (NM_003317) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: TTF1 (NKX2-1) (NM_003317) Human Tagged ORF Clone Tag: Myc-DDK TTF1 Symbol: Synonyms: BCH; BHC; NK-2; NKX2.1; NKX2A; NMTC1; T/EBP; TEBP; TITF1; TTF-1; TTF1 Mammalian Cell Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) **ORF** Nucleotide >RC217520 representing NM_003317 Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCGATGAGTCCAAAGCACACGACTCCGTTCTCAGTGTCTGACATCTTGAGTCCCCTGGAGGAAAGCT ACCGCCAACAGCGGCCATGCAGCAGCACGCCGTGGGGCACCACGGCGCCGTCACCGCCGCCTACCACATG ACGGCGGCGGGGGGGGCCCCAGCTCTCGCACTCCGCCGTGGGGGGCCTACTGCAACGGCAACCTGGGCAACA TGAGCGAGCTGCCGCCGTACCAGGACACCATGAGGAACAGCGCCTCTGGCCCCGGATGGTACGGCGCCAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAG**GTTTAA**

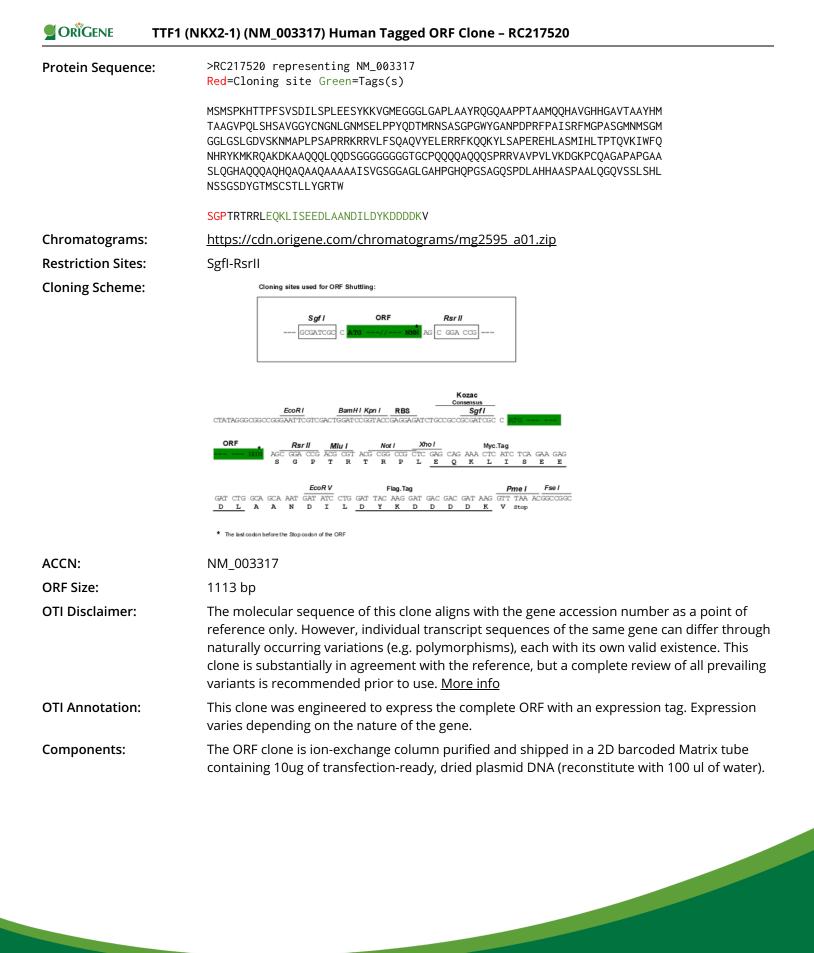


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OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn



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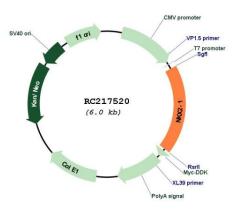
ORIGENE TTF1 (NKX2-1) (NM_003317) Human Tagged ORF Clone – RC217520

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 003317.4</u>
RefSeq Size:	2352 bp
RefSeq ORF:	1116 bp
Locus ID:	7080
UniProt ID:	<u>P43699</u>
Cytogenetics:	14q13.3
Domains:	homeobox
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
MW:	38.4 kDa
Gene Summary:	This gene encodes a protein initially identified as a thyroid-specific transcription factor. The encoded protein binds to the thyroglobulin promoter and regulates the expression of thyroid-specific genes but has also been shown to regulate the expression of genes involved in morphogenesis. Mutations and deletions in this gene are associated with benign hereditary chorea, choreoathetosis, congenital hypothyroidism, and neonatal respiratory distress, and may be associated with thyroid cancer. Multiple transcript variants encoding different isoforms have been found for this gene. This gene shares the symbol/alias 'TTF1' with another gene, transcription termination factor 1, which plays a role in ribosomal gene transcription. [provided by RefSeq, Feb 2014]

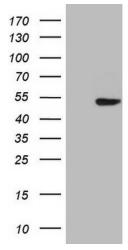
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Product images:

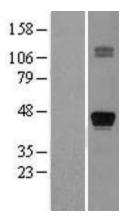


Circular map for RC217520



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NKX2-1 (Cat# RC217520, 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-NKX2-1(Cat# [TA808440]). Positive lysates [LY401141] (100ug) and [LC401141] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY401141]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217520 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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