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Product datasheet for SC118030

TTF1 (NKX2-1) (NM_003317) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTF1 (NKX2-1) (NM_003317) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTF1
Synonyms:	BCH; BHC; NK-2; NKX2.1; NKX2A; NMTC1; T/EBP; TEBP; TITF1; TTF-1; TTF1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC118030 sequence for NM_003317 edited (data generated by NextGen Sequencing)

ATGTCGATGAGTCCAAAGCACACGACTCCGTTCTCAGTGTCTGACATCTTGAGTCCCCTG
GAGGAAAGCTACAAGAAAGTGGGCATGGAGGGCGGCGGCCTCGGGGCTCCGCTGGCGGCG
TACAGGCAGGGCCAGGCGGCACCGCCAACAGCGGCCATGCAGCAGCACGCCGTGGGGCAC
CACGGCGCCGTCACCGCCGCCTACCACATGACGGCGGCGGGGGTGCCCCAGCTCTCGCAC
TCCGCCGTGGGGGGCTACTGCAACGGCAACCTGGGCAACATGAGCGAGCTGCCGCCGTAC
CAGGACACCATGAGGAACAGCGCCTCTGGCCCCGGATGGTACGGCGCCAACCCAGACCCG
CGCTTCCCCGCCATCTCCCGCTTCATGGGCCCGGCGAGCGGCATGAACATGAGCGGCATG
GGCGGCCTGGGCTCGCTGGGGGACGTGAGCAAGAACATGGCCCCGCTGCCAAGCGCGCCG
CGCAGGAAGCGCCGGGTGCTCTTCTCGCAGGCGCAGGTGTACGAGCTGGAGCGACGCTTC
AAGCAACAGAAGTACCTGTCGGCGCCGGAGCGCGAGCACCTGGCCAGCATGATCCACCTG
ACGCCCACGCAGGTCAAGATCTGGTTCCAGAACCACCGCTACAAAATGAAGCGCCAGGCC
AAGGACAAGGCGGCGCAGCAGCAACTGCAGCAGGACAGCGGCGGCGGCGGGGGCGGCGGG
GGCACCGGGTGCCCGCAGCAGCAACAGGCTCAGCAGCAGTCGCCGCGACGCGTGGCGGTG
CCGGTCCTGGTGAAAGACGGCAAACCGTGCCAGGCGGGTGCCCCCGCGCCGGGCGCCGCC
AGCCTACAAGGCCACGCGCAGCAGCAGGCGCAGCACCAGGCGCAGGCCGCGCAGGCGGCG
GCAGCGGCCATCTCCGTGGGCAGCGGTGGCGCCGGCCTTGGCGCACACCCGGGCCACCAG
CCAGGCAGCGCAGGCCAGTCTCCGGACCTGGCGCACCACGCCGCCAGCCCCGCGGCGCTG
CAGGGCCAGGTATCCAGCCTGTCCCACCTGAACTCCTCGGGCTCGGACTACGGCACCATG
TCCTGCTCCACCTTGCTATACGGTCGGACCTGGTGA

Clone variation with respect to NM_003317.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003317 unedited
NGTCGCGATTAGTATACGACTCCTATAGGGCGGCCGCGAATTCGCACGAGGCTGACAGAC
ACGTAGACCAACAGTGCGGCCCCAGGTTCGTCCCCAGACTCGCTCGCTCATTTGTTGGCG
ACTGGGGCTCAGCGCAGCGAAGCCCGATGTGGTCCGGAGGCAGTGGGAAGGCGCGGGGCT
GGGAGGCCGCGGCGGGAGGGAGGAGCAGCCCCGGCAGGCTCAGCCGCCGCCGAATCATGT
CGATGAGTCCAAAGCACACGACTCCGTTCTCAGTGTCTGACATCTTGAGTCCCCTGGAGG
AAAGCTACAAGAAAGTGGGCATGGAGGGCGGCGGCCTCGGGGCTCCGCTGGCGGCGTACA
GGCAGGGCCAGGCGGCACCGCCAACAGCGGCCATGCAGCAGCACGCCGTGGGGCACCACG
GCGCCGTCACCGCCGCCTACCACATGACGGCGGCGGGGGTGCCCCAGCTCTCGCACTCCG
CCGTGGGGGGCTACTGCAACGGCAACCTGGGCAACATGAGCGAGCTGCCGCCGTACCAGG
ACACCATGAGGAACAGCGCCTCTGGCCCCGGATGGTACGGCGCCAACCCAGACCCGCGCT
TCCCCGCCATCTCCCGCTTCATGGGCCCGGCGAGCGGCATGAACATGAGCGGCATGGGCG
GCCTGNGCTCGCTGGGGGACGTGAGCAAGAACATGGCCCCGCTGCCAAGCGCGCCGCGCA
GGAAGCGCCGGGTGCTCTTCTCGCAGGCGCAGGTGTACGAGCTGGAGCGACGCTTCAAGC
AACAGAAGTACCCTGTCGCGCCGGAGCGCGAGCACCTGGCCAGCATGATCCACCTGACGC
CCACGCAGTCAGATCTGGTTCCAGAACCACCGCTACANATGAAGCGCCAGNNCAGGNACA
NGGCNGCGCAGCAGCAACTGCAGCAGGACAGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003317 unedited
GCGTTAAGGAGACTTTATTATTTTTTTAATTTATTAGNAGCTTCTTAGGGACTATATTTA
AGCCAAATATCTACATAAGTTACAACAGAAAAAGATGACGCCGCAAATACCAAACTGCCA
AATAATATACACAGATTTGTCAATGCCCATAAAAAATGTGAAGGGCTGGGGACTGGGAGT
GGTTTTTCTTTTTACAACAAAATGTACAGATTACTAAAAACTAGGCATTTAGTCCAACTT
TTGACAGCGTTTTACAGCTACAAGTTCACATTAAACAAACTATTTTCGCGGAGGGCGGTC
GCCGCTGAGCCTAGGCGGCCAGAGGGTGCCGGGGAGGGGGCACTTCCTTTGTGTCAGTGA
CAAGTGGGTTATGTTGAAGACTCTTTCCTCTCCCCAGCTCCCGTCCTCCCTTCAAAAAAA
AAAAAAAAATCCTGGTATTTACAAGCGAGTCCTCTTTGCTGGCAGAGTGTGCCCAGAGTG
AAGTTTGGTCTTTAGAGTCCAGAGCCATGTCAGCACAGAGCCCTCTCCAATCTGTGCCCC
GCCCCTAGCGTGGAAAACCCATTTGAATCACCAAAAAAAGACACCCCAAAGCTGTTTTAT
GCCCTTTTCTGCTTAAAGATTCCTTGAGATTGGATGCGCTTGGCTGCTCTTCATTTTCTT
TTTTTTAAAAAAAAAAAACCCCCAAATTTTCAGGGGGGGAAAAAAACAAAGAAGTCCCAC
CACTTAGGCCTTTGTGGTTTTTTTGTTCCTTGGGCCTAAAACCGGCCCGNTTCTAAAGAA
AATTTAACGCGTTGGAACAACGGTGGATGGTGCTTCTTTGGCTGCCAGAAGGAACCGTGA
AGCCAACCCTGGGCTTAGGCCGACCGGTGTCTTTTACCAATTCCAACCGTTTCAAGGTGT
ACCGAATTGGGCCCCTTTCCACACCAG

Restriction Sites: NotI-NotI

ACCN: NM_003317

Insert Size: 2300 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003317.3, NP_003308.1
RefSeq Size:	2352 bp
RefSeq ORF:	1116 bp
Locus ID:	7080
UniProt ID:	P43699
Cytogenetics:	14q13.3
Domains:	homeobox
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
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] Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct N-terminus compared to isoform 1.