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Product datasheet for SC303716

TBX1 (NM_005992) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX1 (NM_005992) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBX1
Synonyms:	CAFS; CATCH22; CTHM; DGCR; DGS; DORV; TBX1C; TGA; VCF; VCFS
Vector:	pCMV6 series
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005992, the custom clone sequence may differ by one or more nucleotides ATGCACTTCAGCACCGTCACCAGGGACATGGAAGCCTTCACGGCCAGCAGCCTGAGCAGC CTGGGGGCCGCGGGGGGCTTCCCGGGCGCCGCGTCGCCCGGCGCCGACCCGTACGGCCCG CGCGAGCCCCCGCCGCCGCCGCCGCGCTACGACCCGTGCGCCGCCGCCGCCCCCGGCGCC CCGGGCCCGCCGCCGCCGCCGCACGCCTACCCGTTTGCGCCGGCCGCCGGGGCCGCCACC AGCGCCGCCGCCGAGCCCGAGGGCCCCGGGGCCAGCTGCGCGGCCGCAGCCAAGGCGCCG GTGAAGAAGAACGCGAAGGTGGCCGGTGTGAGCGTGCAGCTAGAGATGAAGGCGCTGTGG GACGAGTTCAACCAGCTGGGCACCGAGATGATCGTCACCAAGGCCGGCAGGCGGATGTTT CCCACCTTCCAAGTGAAGCTCTTCGGCATGGATCCCATGGCCGACTATATGCTGCTCATG GACTTCGTGCCGGTGGACGATAAGCGCTACCGGTACGCCTTCCACAGCTCCTCCTGGCTG GTGGCGGGGAAGGCCGACCCTGCCACGCCAGGCCGCGTGCACTACCACCCGGACTCGCCT GCCAAGGGCGCGCAGTGGATGAAGCAAATCGTGTCCTTCGACAAGCTCAAGCTGACCAAC AACCTACTGGACGACAACGGCCACATTATTCTGAATTCCATGCACAGATACCAGCCCCGC TTCCACGTGGTCTATGTGGACCCACGCAAAGATAGCGAGAAATATGCCGAGGAGAACTTC AAAACCTTTGTGTTCGAGGAGACACGATTCACCGCGGTCACTGCCTACCAGAACCATCGG ATCACGCAGCTCAAGATTGCCAGCAATCCCTTCGCGAAAGGCTTCCGGGACTGTGACCCT GAGGACTGGCCCCGGAACCACCGGCCCGGCGCACTGCCGCTCATGAGCGCCTTCGCGCGC TCGCGGAACCCCGTGGCTTCCCCGACGCAGCCCAGCGGCACGGAGAAAGGGCTGGTCACA GAAGGCTCTGGGCTCCAACCTGGCTTGCTGGACGTGCTCTTGAAGCCCCCAAGTAAGAAG TCTGAGTCCCTGAGACCACCACACTGCAAGGACACTTGA
Restriction Sites:	Please inquire
ACCN:	NM_005992
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).

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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_005992.1, NP_005983.1
RefSeq Size:	1538 bp
RefSeq ORF:	1119 bp
Locus ID:	6899
UniProt ID:	O43435
Cytogenetics:	22q11.21
Protein Families:	Transcription Factors
Gene Summary:	This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene product shares 98% amino acid sequence identity with the mouse ortholog. DiGeorge syndrome (DGS)/velocardiofacial syndrome (VCFS), a common congenital disorder characterized by neural-crest-related developmental defects, has been associated with deletions of chromosome 22q11.2, where this gene has been mapped. Studies using mouse models of DiGeorge syndrome suggest a major role for this gene in the molecular etiology of DGS/VCFS. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (B) contains an alternate exon 9 and an additional exon 10 compared to variant C. It encodes an isoform (B) with the same N-terminal 336 aa, but an unique C-terminus with respect to isoforms A and C.