

## Product datasheet for **SC117278**

### **YB1 (YBX1) (NM\_004559) Human Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	YB1 (YBX1) (NM_004559) Human Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	YB1
<b>Synonyms:</b>	BP-8; CBF-A; CSDA2; CSDB; DBPB; EFI-A; MDR-NF1; NSEP-1; NSEP1; YB-1; YB1
<b>Mammalian Cell Selection:</b>	None
<b>Vector:</b>	<u><a href="#">pCMV6-XL5</a></u>
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)
<b>Fully Sequenced ORF:</b>	>OriGene ORF within SC117278 sequence for NM_004559 edited (data generated by NextGen Sequencing)

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ATGAGCAGCGAGCCGAGACCCAGCAGCCGCCGCCGCCCCCGGCCGCCCCCGCCCTC
AGCGCCGCCGACACCAAGCCCGGCACTACGGGCAGCGGCAGGGAGCGGTGGCCGGGC
GGCCTCACATCGGCGGCGCTGCGGCGGGGACAAGAAGGTCATCGCAACGAAGTTTTG
GGAACAGTAAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCAACAGGAATGACACC
AAGGAAGATGATTTGTACACCAGACTGCCATAAAGAAGAATAACCCAGGAAGTACCTT
CGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGTTGCC
GAGGCAGCAAATGTTACAGGTCTGGTGGTGTCCAGTTCAAGGCAGTAAATATGCAGCA
GACCGTAACCATTATAGACGCTATCCACGTCGTAGGGGTCTCCACGCAATTACCAGCAA
AATTACCAGAATAGTGAGAGTGGGGAAAAGAACGAGGGATCGGAGAGTGCTCCCGAAGGC
CAGGCCCAACAACGCCCGCCCTACCGCAGGCGAAGGTTCCACCTTACTACATGCGGAGA
CCCTATGGGCGTCGACCACAGTATTCCAACCCTCCTGTGCGAGGGAGAAGTGATGGAGGTT
GCTGACAACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAAGCAGAAATATGTATCGGGGA
TATAGACCACGATTCCGCAGGGGCCCTCTCGCCAAAGACAGCCCTAGAGAGGACGGCAAT
GAAGAAGATAAAGAAAATCAAGGAGATGAGACCAAGGTGAGCAGCCACCTCAACGTCGG
TACCGCGCAACTTCAATTACCGACGCAGACGCCAGAAAACCCTAAACCACAAGATGGC
AAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTCGTCCGCTCCCGAGGCTGAGCAG
GGCGGGGCTGAGTAA
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Clone variation with respect to NM\_004559.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004559 unedited</p> <p>TGTATACGACTCTATAGGGCGGCCGCGATTTCGGCACGAGGGGAGCGGAGAGCGGACCC  CAGAGAGCCCTGAGCAGCCCCACCGCCGCCCGCCCTAGTTACCATCACACCCCGGGAG  GAGCCGCAGCTGCCGAGCCGCCCCAGTCACCATCACCGCAACCATGAGCAGCGAGGCC  GAGACCCAGCAGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCCTCAGCGCCGCCGACACC  AAGCCCCGCACTACGGGCAGCGCGCAGGGAGCGGTGGCCCGGGCGCCTCACATCGGCG  GCGCCTGCCGGCGGGACAAGAAGGTCATCGCAACGAAGTTTTGGGAACAGTAAATGG  TTCAATGTAAGGAACGGATATGGTTTCATCAACAGGAATGACACCAAGGAAGATGATTT  GTACACCAGACTGCCATAAAGAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGAGAT  GGAGAGACTGTGGAGTTTGTGTTGTTGAAGGAGAAAAGGGTGCAGGAGCAGCAATGTT  ACAGGTCTGGTGGTGTCCAGTTCAAGGCAGTAAATATGCAGCAGACCGTAACCATTAT  AGACGCTATCCACGTCGTNAGGGGGTCTCCACGCAATTACCAGCAAAATTACCAGAATA  GTGGAGAGTGGGGAAAAGAACGAGGGATCGGNAGAGTGTNNCCGAAGGCCAGGCCAA  CAACGCCGCCCTACCGCAGGGCAAAGTCCCACCTTACTACATGCGGAGACCCATATG  GGCGTCGACCACAGTATCCAACCTCTGTGCAGGGAGAGGATTGGGAGGGTGTGACAC  CCAGGTGCAGGAGAAAGGTAGACCAGTGAGCAGATATGTATTCGGGGAATAGACACGA  TNCCGCAGG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004559 unedited</p> <p>CACAACACAAAACCCACAAAACAACCCCCCCCCACAAAACCCATTGCTTTTTACTCTGC  NCNCGACGGCCCGCTTTTTNANGATCGAGTTTTTTTTTTTTTTTTTTTAAATATTAAGA  CCTTTATTAACAGGTGCTTGCAGTTTGTGACTTTTTTCGAAAAAATCAAGTTGTAACCT  TTTATTACAAATTAATAATGAAGTTCTTAAAAATCTCACTTGACCAGATATGAAACAAT  TTAAAAACCTTTAAAGGCGTATTGAGAAAAACAGGCTTTTTTAAAAAACACGTTTGTTA  TTACAAAAAGAGACGTCTTTAGGTAAAAATAATAAAAAACCCATGCTGCATAGATACTG  CAGATAGTTCTATTTATCTGGTCAACGGGCAAAAAGCAAGCACTTTAGGTCTTCAGCTCC  AATCTTTTGTTCATTTCTATTGCTGGAATTTCAATTTCTTCTTGTGGATGACTAAAC  CGGATGATGGTAGAGATGGTAAGCCGGCATTACTCAGCCCCGCCTGCTCAGCTCGGG  AGCGGACGAATTCAGCTGGTGGATCGGCTGCCTTTGTCTTTGCCATCTTGTGGTTT  AGGGTCTTCTGGGCGTCTGCCTCGGTAATTGAAGTTGCGGCGGTACCGACGTTGAGGTG  CTGTTGACCTTGGGCCTCATCTCCTTGATTTTCTTTATCTTCTTAATTGCCCGCCTCTCT  AGGCTTGCTTTGCGAGGAGGGCCCTGGGGAACCGGGGTATACCCCCCAACCTATCCT  GCCTCCTGGGTTACCTTGCTCCCTGCACCCCGGTTGGCAGCACCTCCATAATTTTTCC  CTGCCAGGAGGGTTTGAATCCTGTGCCACCCCTAAGGTCTTCCATGGCACAAGG  GGGGAACCTTCCCTGCGGGAGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004559
<b>Insert Size:</b>	1560 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004559.2</a> , <a href="#">NP_004550.2</a>
<b>RefSeq Size:</b>	1554 bp
<b>RefSeq ORF:</b>	975 bp
<b>Locus ID:</b>	4904
<b>UniProt ID:</b>	<a href="#">P67809</a>
<b>Cytogenetics:</b>	1p34.2
<b>Domains:</b>	CSD
<b>Protein Families:</b>	ES Cell Differentiation/IPS, Transcription Factors
<b>Gene Summary:</b>	<p>This gene encodes a highly conserved cold shock domain protein that has broad nucleic acid binding properties. The encoded protein functions as both a DNA and RNA binding protein and has been implicated in numerous cellular processes including regulation of transcription and translation, pre-mRNA splicing, DNA repair and mRNA packaging. This protein is also a component of messenger ribonucleoprotein (mRNP) complexes and may have a role in microRNA processing. This protein can be secreted through non-classical pathways and functions as an extracellular mitogen. Aberrant expression of the gene is associated with cancer proliferation in numerous tissues. This gene may be a prognostic marker for poor outcome and drug resistance in certain cancers. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on multiple chromosomes. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>