

Product datasheet for **SC112860**

PKNOX2 (NM_022062) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKNOX2 (NM_022062) Human Untagged Clone
Tag:	Tag Free
Symbol:	PKNOX2
Synonyms:	PREP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112860 sequence for NM_022062 edited (data generated by NextGen Sequencing)

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ATGATGCAACATGCCTCCCCAGCCCCCGCTCTGACGATGATGGCCACGCAGAATGTCCC
CCCCACCCTACCAGGACAGCCACAGATGACGGCAACCGCCAGCCACCCTCCAAGGCC
CAGGCTGTCCACATCTCTGCCCCCTCAGCTGCTGCCAGCACACCTGTGCCAGTGCCCC
ATCGACCCCCAGGCCAGCTGGAGGCTGACAAGCGAGCTGTATACAGGCACCCTTTTT
CCGCTCTGACGCTGCTGTTTGAGAAATGTGAACAGGCCACCCAGGGCTCTGAGTGCATC
ACCTCCGCCAGCTTTGATGTGGACATCGAGAACTTTGTCCACCAGCAGGAACAGGAGCAC
AAACCTTCTTTCAGCGATGACCCAGAAGTGGACAATCTGATGGTGAAGGCAATCCAGGTC
CTGAGAATCCACCTGCTGGAGCTGGAGAAAGTCAATGAACTCTGCAAGGACTTTTGTAA
CGTTACATCACCTGCCTCAAACCAAGATGCACAGCGACAACCTGCTCAGGAATGATCTA
GGGGGGCCCTACTCCCCAACCGCCCTCCATCAACCTTCACTCACAGGACCTCCTGCAG
AATTCCCCAATTCATGTCCGGAGTCTCAATAACCCCCAGGGGATTGTGGTCCCAGCC
TCAGCGCTCCAGCAGGGCAACATCGCCATGACAACCGTCAACTACAAGTTGTGTCAGGT
GGAGCCTTATACCAACCGGTTACCATGGTAACCTCCCAGGGTCAGGTGGTCAACCAAGCA
ATCCCCCAGGGAGCCATCCAGATCCAGAACACACAGGTTAACCTTGACCTCACCTCCCTC
CTGGACAATGAGGATAAGAAGTCCAAGAACAACGAGGAGTCTTGCCCAAGCATGCCACC
AATATAATGCGTTCTTGGCTCTTCCAGCATCTCATGCACCCCTACCCACGGAGGATGAG
AAGAGGCAGATCGCAGCCAGACCAACCTCACCTCCTGCAAGTAAACAAGTGGTTTCATC
AATGCCCGGAGGGCGCATCCTGCAGCCATGCTTGTGAGCAACCCAGATCCTGCCCCC
AAAGCCAAGAAGATCAAGTCTCAGCACCAGGGCCACCCAAAGATTCTGGCCCAACTCCATC
GCTGCGGGGGTGTGCAGCAGCAGGGCGGTGCCCAGGGACAAACCCCGATGGTTCCATC
AAGTTGGACAACCTGCAGTCCCTGCTCAGACAGTGCCACCATGGCCATGCAGCAGGCT
ATGATGGCTGCACACGATGACTATTGGATGGGACAGAAGAAGAGGATGAGGATGAGATG
GAAGAGGAGGAGGAGGAGGAGCTGGAGGAGGAGTTCGACGAGCTGCAGACGACAAATGTC
AGCGACCTGGGCTTGAACACAGTACTCCCTGGAGTAG
    
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Clone variation with respect to NM_022062.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_022062 unedited
GCATTTTGGTATACGACTCACTATAGGGCGGCCCGAATTCGCACGAGGCTGGGAAGTA
TAGGCTGTGTTGTACGCCGGTGTGCTGAGAGATGGCATCAGTGAAGTCTGGAGCA
GACTTTGAGCTTTCTATCCTCCTGCTGCTCACTAGAAAAGGGCTGTGAACTGTGCTTTGG
CTTAGCAGACAGGAAGAAATCTGGCCAGCTGGAAAGTAAAGAGGGGAGTGAGTCTC
CTGAGGACCATCTCAGAGGCCCGGGATCACCCGAACAGTCCCTCCATGTGAATCAATCCC
ATGATGCAACATGCCTCCCCAGCCCCGCTCTGACGATGATGGCCACGCAGAATGTCCC
CCCCACCCTACCAGGACAGCCACAGATGACGGCAACCGCCAGCCACCCTCCAAGGCC
CAGGCTGTCCACATCTCTGCCCCCTCAGCTGCTGCCAGCACACCTGTGCCAGTGCCCC
ATCGACCCCCAGGCCAGCTGGAGGCTGACAAGCGAGCTGTATACAGGCACCCTTTTTT
CCGCTCTGACGCTGCTGTTTGAGAAATGTGAACAGGCCACCCAGGGCTCTGAGTGCATC
ACCTCCGCCAGCTTTGATGTGGACATCGAGAACTTTGTCCACCAGCAGGAACAGGAGCAC
AAACCTTCTTTCAGCGATGACCCAGAAGTGGACAATCTGATGGTGAAGGCAATCCAGGTC
CTGAGAATCCACCTGCTGGAGCTGGAGAAAGTCAATGACTCTGCAGGGGACTTTGTACGN
TACATCACCTGCCTCAAACCCAGATGACAGCGACACCTGTGAGATGACTATAGGGGGGC
CCTACTCCCCAACANCCCTCTNACCTTNATACAGGACTCTGCAGATNCCCATNCTGGNCC
GNAGCTCAACCNAGGGGAATGTGGGGGCCAGCTAGGCTCAGAGGGACATGCTGAACG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022062 unedited TTGTACGCGGCCGCTTTCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTACGGTAGGTAATAA GATTTACTGAAAACGTCTCGGCCACATTCAGTACTGGTTTGGTGGATACATCAGAAGGAG GTTGCATAACATTAGGCAGGTGGAGGGGCTGAGAGGAAGAGATGTGGGCACCTGTGTGCC AGTGTGTCCTGCTGGGGGACGCTGTCCAGGTGGTGTGAGTGAACGGTGTGTGTGTGTGT CTGTGTGCCCGTGTAAACAAGAAAAACGAACCAGAAAAGAAATGCATTTTATCCCCTG CACATTGCAAAAAGTCTCACGCCAAAAAGCTAGACTTTTCTCTATGTATGGCATCAAAAG GGAGTAAAAAATGATTGGATCACCCAGATTATAAATAAGGTGTATTTGTTTCTCAAAAAT CCTTATTA AAAACATTAATATCAGCTCTTTTGGGGGAGAAATACATTCATTTTCAGGGAGA CCTCGGAAGAGTGACCATCCTTTTGTCTCTACCCCAACCAGGTGGGGGAGGGGAAGCCCCA GAGGGCCACGGGGGCCCTCCAGTTGAGCCAGGTAGCCACTCACATCCTGCCACTGAAG GAGGGGGTAATGCACACTCTACAAATGAAACTGCCCGTCCCTTAACTTAAACCCCATGC GAAACACCCTGTGACCCGGCTGTCAATCACAGCCATGGGGGGAGAGGGAACCCGAGGA GAGGGTGCCATCCAAGTGGCGTGAATGGGGTGGGAGGTATTTGTTAGGGGGCGCTCT GGCTCTTCTTCTCGTCCCTTCGCCTTTTTTTTCTTCCCTCCTTTTCCGCCCTTT CTTCCCTCGTTTTTCGCTCCCCGTTTCCCCGTTTCCCCCTCCCCCTGTTCCGTCGG CCTCGTTCGCGCCACCCCTCCCTCGTCCCCGCTTCTCGCGGTGCGTAGGCCGCCGT CGCTCCCGTTGTTTTCTC
Restriction Sites:	NotI-NotI
ACCN:	NM_022062
Insert Size:	3860 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:	<ol style="list-style-type: none"> 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:	<u>NM_022062.1</u> , <u>NP_071345.1</u>
RefSeq Size:	3175 bp
RefSeq ORF:	921 bp
Locus ID:	63876
UniProt ID:	<u>Q96KN3</u>
Cytogenetics:	11q24.2
Protein Families:	Transcription Factors

Gene Summary:

Homeodomain proteins are sequence-specific transcription factors that share a highly conserved DNA-binding domain and play fundamental roles in cell proliferation, differentiation, and death. PKNOX2 belongs to the TALE (3-amino acid loop extension) class of homeodomain proteins characterized by a 3-amino acid extension between alpha helices 1 and 2 within the homeodomain (Imoto et al., 2001 [PubMed 11549286]).[supplied by OMIM, Oct 2009]