

Product datasheet for **SC317778**

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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC317778 representing NM_022062.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGCAACATGCCTCCCCAGCCCCGCTCTGACGATGATGCCACGCAGAATGTCCGCCCCACCC
TACCAGGACAGCCACAGATGACGGCAACCGCCAGCCACCTCCAAGGCCAGGCTGTCCACATCTCT
GCCCCCTCAGCTGCTGCCAGCACACTGTGCCAGTGCCCCATCGACCCCAAGGCCAGCTGGAGGCT
GACAAGCGAGCTGTATACAGGCACCCTCTTTCCCGCTCCTGACGCTGCTGTTTGAAGAAATGTGAACAG
GCCACCCAGGGCTCTGAGTGCATCACCTCCGCCAGCTTTGATGTGGACATCGAGAATTTGTCCACCAG
CAGGAACAGGAGCACAACCCCTTCTTCAGCGATGACCCAGAAGTGGACAATCTGATGGTGAAGGCAATC
CAGGTCCTGAGAATCCACCTGCTGGAGCTGGAGAAAGTCAATGAACTCTGCAAGGACTTTTGTAAACCGT
TACATCACCTGCCTCAAACCAAGATGCACAGCGACAACCTGCTCAGGAATGATCTAGGGGGGCCCTAC
TCCCCCAACCAGCCCTCCATCAACCTTCACTCACAGGACCTCCTGCAGAATCCCCCAATCCATGTCC
GGAGTCTCCAATAACCCCAAGGGATTGTGGTCCAGCCTCAGCGCTCCAGCAGGCAACATCGCCATG
ACAACCGTCAACTCACAAGTTGTGTGAGGTGGAGCCTTATACCAACCGGTTACCATGGTAACCTCCCAG
GGTCAGGTGGTCACCAAGCAATCCCCAGGGAGCCATCCAGATCCAGAACACACAGGTTAACCTTGAC
CTCACCTCCCTCTGGACAATGAGGATAAGAAGTCCAAGAACAACAGGAGTCTTGCCCAAGCATGCC
ACCAATAATAATGCGTTCTTGGCTCTTCCAGCATCTCATGCACCCCTACCCACGGAGGATGAGAAGAGG
CAGATCGCAGCCCAGACCAACCTCACCTCCTGCAAGTAAACAACCTGGTTCATCAATGCCCGGAGGCGC
ATCCTGCAGCCCATGCTTGTATGCCAGCAACCCAGATCCTGCCCCAAAGCCAAGAAGATCAAGTCTCAG
CACCGGCCACCCAAAGATTCTGGCCAACTCCATCGCTGCGGGGGTCTGCAGCAGCAGGGCGGTGCC
CCAGGGACAACCCCGATGGTTCATCAACTTGGACAACCTGCAGTCCCTGTCTCAGACAGTCCACC
ATGGCCATGCAGCAGGCTATGATGGCTGCACACGATGACTCATTGGATGGGACAGAAGAAGAGGATGAG
GATGAGATGGAAGAGGAGGAGGAGGAGGCTGGAGGAGGAGGTCGACGAGCTGCAGACGACAAATGTC
AGCGACCTGGGCTTGAACACAGTGACTCCCTGGAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: Sgfl-MluI

ACCN: NM_022062

Insert Size: 1419 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).

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_022062.2](#)

RefSeq Size: 3730 bp

RefSeq ORF: 1419 bp

Locus ID: 63876

UniProt ID: [Q96KN3](#)

Cytogenetics: 11q24.2

Protein Families: Transcription Factors

MW: 52 kDa

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]