

Product datasheet for **MC200996**

Pax6 (BC011272) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax6 (BC011272) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pax6
Synonyms:	1500038E17Rik; AEY11; Dey; Gsfaey11; Pax-6; Sey
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC011272
 CCGACGCGTGGGCGCGCTCCGGCTTTGTGCAAGATTCTCCCGGCACAGAAGTCCCGCAGCACTCGAGCA
 CCAAAGGGTCAATCGCGCCCTCCGCCAGCCGGAGCCGTCTGGATGGGCACCACGGCCGTGCGCCGGAGGCC
 ACGAGGGACCCAGAGCGAGCGCGGGCGGTGAAGGAAGCCACTAGGCCGAGGCGGTGCGATGCGCTCTGCG
 AGGGAGCTCCGAGCCGATCGCAAGGACTGCCAGTTCCATCCACCCCCAGGGCCCTCGCTCCAGCCTC
 AGCCGAGCGCTGAGCTCAGATTTGAAAACAAACGCCCTAGCTCTCCGGCTTCCACAACCTATCTTTGC
 GAAAGTTGGTGTGTTCCCTGTCCCTGTGGACTCCACCTCCAGCTTTGGCAGAAGACTTTAACCAAGGGC
 GGTGAGCAGATGTGTGAGATCTTCTATTCTAGAAGTGGACGTATATCCAGTTCTCAGAGCCCCGTATTC
 GAGCCCCGTGGGATCCGGAGGCTGCCAACAGCTCCAGCATGCAGAACAGTCACAGCGGAGTGAATCAGC
 TTGGTGGTGTCTTTGTCAACGGGCGGCCACTGCCGGACTCCACCCGGCAGAAGATCGTAGAGCTAGCTCA
 CAGCGGGGCCCGCGTGCACATTTCCCGAATTCTGCAGACCCATGCAGATGCAAAAAGTCCAGGTGCTG
 GACAATGAAAACGTATCCAACGGTTGTGTGAGTAAAATTCTGGCAGGTATTACGAGACTGGCTCCATCA
 GACCCAGGGCAATCGGAGGGAGTAAGCCAAGAGTGGCGACTCCAGAAGTTGAAGCAAAATAGCCAGTA
 TAAACGGGAGTGCCTTCCATCTTTGCTGGGAAATCCGAGACAGATTATATCCGAGGGGTCTGTACC
 AACGATAACATACCCAGTGTGTCATCAATAAACAGAGTTCTTCGCAACCTGGCTAGCGAAAAGCAACAGA
 TGGGCGCAGACGGCATGTATGATAAACTAAGGATGTTGAACGGGAGACCGGAAGCTGGGGCACACGCC
 TGGTTGGTATCCCGGACTTCAGTACCAGGGCAACCCACGCAAGATGGCTGCCAGCAACAGGAAGGAGGG
 GGAGAGAACACCAACTCCATCAGTTCTAACGGAGAAGACTCGGATGAAGCTCAGATGCGACTTCAGCTGA
 AGCGGAAGCTGCAAGAAATAGAATCTTTTACCCAAGAGCAGATTGAGGCTCTGGAGAAAAGAGTTTGA
 GAGGACCCATTATCCAGATGTGTTTCCCGGAAAAGACTAGCAGCCAAAATAGATCTACCTGAAGCAAGA
 ATACAGGTATGGTTTTCTAATCGAAGGGCCAAATGGAGAAGAGAAGAGAAAAGTGAAGAACAGAGAAGAC
 AGGCCAGCAACACTCCTAGTCACATTCCTATCAGCAGCAGCTTCCAGTACCAGTGTCTACCAGCCAATCCC
 ACAGCCACACACCTGTCTCCTCCTTCCATCAGGTTCCATGTTGGGCCGAACAGACACCGCCCTCACC
 AACACGTACAGTGCTTTGCCACCCATGCCAGCTTACCATGGCAAAACACCTGCCTATGCAACCCCCAG
 TCCCCAGTCAGACCTCCTCGTACTCGTGCATGCTGCCACCAGCCCGTCAAGTGAATGGGCGGAGTTATGA
 TACCTACACCCCTCCGCACATGCAAAACACACATGAACAGTCAGCCCATGGGCACCTCGGGGACCCTTCA
 ACAGGACTCATTTACCTGGAGTGTGAGTTCCCGTCCAAGTTCCCGGAGTGAACCTGACATGTCTCAGT
 ACTGGCCTCGATTACAGTAAAGAGAGAAGGAGAGAGCGTGTGATCGAGAGAGGAAATTTGTCTCACTCTG
 CCAATGACTATGTGGACACAGCAGTTGGGTATTCAGGAAAAGAAAGAGAAATGGCGGTTAGAAGCACTTCA
 CTTTGTAACTGTCCTGAACTGGAGCCCGGGAATGGACTAGAACCAAGGACCTTTGCGTACAGAAGGCACG
 GTATCAGTTGGAACAAATCTTCATTTTGGTATCCAACTTTTATTCATTTTGGTGTATTATTTGTAATG
 GGCATTGGTATGTTATAATGAAGAAAAGAACACACAGGCTGTTGGATCGCGGATCTGTGTTGCTCATGT
 GGTGTTTAAAGGAAACCATGATCGACAAGATTTGCCATGGATTTAAGAGTTTTATCAAGATATATCAAA
 TACTTCTCCCATCTGTTTCATAGTTTATGGACTGATGTTCCAAGTTTGTATCATTCTTTGCATATAATT
 GAACCTGGGACAACACACTAGATATATGTA AAAACTATCTGTTGGTTTTCCAAAGGTTGTTAACAGAT
 GAAGTTTATGTGCAAAAAGGGTAAGATATGAATTCAAGGAGAAGTTGATAGCTAAAAGGTAGAGTGTGT
 CTTGATATAATAACAATTTGTTTATGTCAAAATGTAAGTATTTGTCTTCCCTAGAAATCCTCAGAATGA
 TTTCTATAATAAAGTTAATTTTATTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** BC011272
- Insert Size:** 1311 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: [BC011272](#), [AAH11272](#)

RefSeq Size: 2580 bp

RefSeq ORF: 1311 bp

Locus ID: 18508

Cytogenetics: 2 55.31 cM

Gene Summary: This gene encodes a homeobox-containing protein that functions as a regulator of transcription. It plays a key role in the development of neural tissues, particularly the eye. Activity of this protein is also required for expression of glucagon in the pancreas. This gene is regulated by multiple enhancers located up to tens or hundreds of kilobases upstream and downstream of the transcription start sites. Mutations in this gene or deletion of these regulatory elements results in severe defects in eye development. Alternative splicing and the use of alternative promoters results in multiple transcript variants, some of which encode proteins that lack the N-terminal paired domain. [provided by RefSeq, Jul 2015]