

Product datasheet for **MR229906**

Pax6 (NM_001244200) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax6 (NM_001244200) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pax6
Synonyms:	1500038E17Rik; AEY1; AEY11; Dey; Gsfaey; Gsfaey11; Pax; Pax-6; Sey
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR229906 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAACAGTCACAGCGGAGTGAATCAGCTTGGTGGTCTTTGTCAACGGGCGGCCACTGCCGGACT
 CCACCCGGCAGAAGATCGTAGAGCTAGCTCACAGCGGGGCCGGCCGTGGCAGATTTCCCGAATTCTGCA
 GACCCATGCAGATGCAAAAGTCCAGGTGCTGGACAATGAAAACGTATCCAACGGTTGTGTGAGTAAAATT
 CTGGGCAGGTATTACGAGACTGGCTCCATCAGACCCAGGGCAATCGGAGGGAGTAAGCCAAGAGTGGCGA
 CTCCAGAAGTTGTAAGCAAAATAGCCCAGTATAAACGGGAGTGCCTTCCATCTTTGCTTGGGAAATCCG
 AGACAGATTATTATCCGAGGGGGTCTGTACCAACGATAACATACCCAGTGTGTCAATAAACAGAGTT
 CTTGCAACCTGGCTAGCGAAAAGCAACAGATGGGCGCAGACGGCATGTATGATAAACTAAGGATGTTGA
 ACGGGCAGACCGGAAGCTGGGGCACACGCCCTGGTTGGTATCCCGGGACTTCAGTACCAGGGCAACCCAC
 GCAAGATGGCTGCCAGCAACAGGAAGGAGGGGGAGAGAACCAACTCCATCAGTTCTAACGGAGAAGAC
 TCGGATGAAGCTCAGATGCGACTTCAGCTGAAGCGGAAGCTGCAAAGAAATAGAACATCTTTTACCCAAG
 AGCAGATTGAGGCTCTGGAGAAAGAGTTTGAGAGGACCCATTATCCAGATGTGTTTGGCCGGGAAAGACT
 AGCAGCCAAAATAGATCTACCTGAAGCAAGAATACAGGTATGGTTTTCTAATCGAAGGGCCAAATGGAGA
 AGAGAAGAGAAATGAGGAACCAGAGAAGACAGGCCAGCAACACTCCTAGTCACATTCCTATCAGCAGCA
 GCTTCAGTACCAGTGTCTACCAGCCAATCCCACAGCCCACCACACCTGTCTCCTCCTTCACATCAGGTTCC
 CATGTTGGGCCGAACAGACACCGCCCTCACCAACAGTACAGTGTCTTCCACCCATGCCAGCTTACC
 ATGGCAAACAACCTGCCTATGCAACCCCAAGTCCCAGTCAGACCTCCTCATACTCGTGCATGCTGCCCA
 CCAGCCCAGTGAATGGCGGAGTTATGATACCTACACCCCTCCGCACATGCAAACACACATGAACAG
 TCAGCCCATGGGCACCTCGGGGACCACTTCAACAGGACTCATTTCACCTGGAGTGCAGTTCCCGTCCAA
 GTTCCCGGAGTGAACCTGACATGTCTCAGTACTGGCCTCGATTACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229906 protein sequence
 Red=Cloning site Green=Tags(s)

MQNSHSGVNQLGGVFVNGRPLPDSTRQKIVELAHSGARPCDISRILQTHADAKVQVLDNENVSNGCVSKI
 LGRYYETGSIRPRAIGGSKPRVATPEVVSKIAQYKRECPISIFAWEIRDRLLESEGVTNDNIPSVSSINRV
 LRNLASEKQQMGADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQQEGGGENTNSISSNGED
 SDEAQMRLQLKRKLQRNRTSFTQEIEALEKEFERTHYPDVFARERLAAKIDLPEARIQVWFSNRRAKWR
 REEKLNRQRQASNTPSHIPISSSFSTSVYQPIQPPTTPVSSFTSGSMLGRTDTALTNTYSALPPMPSFT
 MANNLPMQPPVPSQTSYSCMLPTSPSVNGRSYDITYPPHMQTHMNSQPMGTSMTTSTGLISPGVSVPVQ
 VPGSEPDMSQYWPRLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

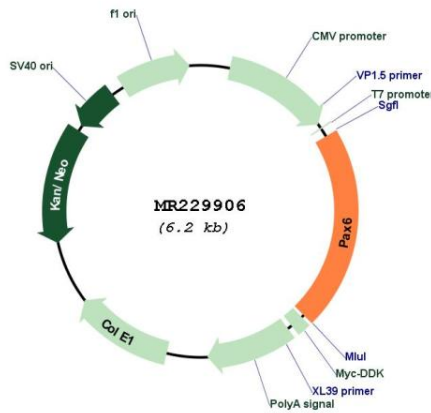
Restriction Sites:

SgfI-MluI

MW: 48.2 kDa

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]

Product images:



Circular map for MR229906