

## Product datasheet for **MR229832**

### **Pax6 (NM\_001244202) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pax6 (NM_001244202) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR229832 representing NM\_001244202  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGAACAGTCACAGCGGAGTGAATCAGCTTGGTGGTCTTTGTCAACGGGGCGCCACTGCCGGACT  
 CCACCCGCGAGAAGATCGTAGAGCTAGCTCACAGCGGGGCCGGCGTGCACATTTCCCGAATTCGCA  
 GGTATCCAACGGTTGTGTGAGTAAAATTCTGGGCAAGTATTACGAGACTGGCTCCATCAGACCCAGGGCA  
 ATCGGAGGGAGTAAGCCAAGAGTGGCGACTCCAGAAGTTGTAAGCAAAATAGCCAGTATAAACGGGAGT  
 GCCCTTCCATCTTTGCTTGGGAAATCCGAGACAGATTATTATCCGAGGGGGTCTGTACCAACGATAACAT  
 ACCCAGTGTGTCATCAATAAACAGAGTTCTTCGCAACCTGGCTAGCGAAAAGCAACAGATGGCGCAGAC  
 GGCATGTATGATAAACTAAGGATGTTGAACGGGCAGACCCGAAGCTGGGGCACACGCCCTGGTTGGTATC  
 CCGGGACTTCAGTACCAGGGCAACCCACGAAGATGGCTGCCAGCAACAGGAAGGAGGGGAGAGAACAC  
 CAACTCCATCAGTTCTAACGGAGAAGACTCGGATGAAGCTCAGATGCGACTTCAGCTGAAGCGGAAGCTG  
 CAAAGAAATAGAACATCTTTTACCCAAGAGCAGATTGAGGCTCTGGAGAAAGAGTTTGAGAGGACCCATT  
 ATCCAGATGTGTTTGCCCGGAAAGACTAGCAGCCAAAATAGATCTACCTGAAGCAAGAATACAGGTATG  
 GTTTTCTAATCGAAGGGCCAAATGGAGAAGAGAAGAGAACTGAGGAACCGAGAAGACAGGCCAGCAAC  
 ACTCCTAGTCACATTCCTATCAGCAGCAGCTTCAGTACCAGTGTCTACCAGCCAATCCCACAGCCCACCA  
 CACCTGTCTCCTCCTCACATCAGGTTCCATGTTGGGCCGAACAGACACCCGCCCTACCAACACGTACAG  
 TGCTTTGCCACCCATGCCAGCTTACCATGGCAAACAACCTGCCTATGCAACCCCCAGTCCCAGTCAG  
 ACCTCCTCATACTCGTGCATGCTGCCACCAGCCCGTCAGTGAATGGGCGGAGTTATGATACCTACACCC  
 CTCGCGACATGCAAACACACATGAACAGTCAGCCCATGGGCACCTCGGGGACCACTTCAACAGGACTCAT  
 TTCACCTGGAGTGCAGTTCCTCCGTTCCCAAGTTCCCGGGAGTGAACCTGACATGTCTCAGTACTGCCCTCGA  
 TTACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR229832 representing NM\_001244202  
 Red=Cloning site Green=Tags(s)

MQNSHSGVNLGGVFVNGRPLPDSTRQKIVELAHSGARPCDISRILQVSNCGVSKILGRYYETGSIRPRA  
 IGGSKPRVATPEVVSKIAQYKRECPISFAWEIRDRLSEGVCNTDNIIPSVSSINRVLRLASEKQMQMGAD  
 GMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQEQQEGGENTNSISSNGEDSDEAQMRLQLKRKL  
 QRNRTSFTQEIQIEALEKEFERHYPDFARERLAAKIDLPEARIQVWFSNRRAKWRREEKLRNQRQASN  
 TPSHIPISSSFSTSVYQIPQPTTPVSSF TSGSMLGRTDTAL TNTYSALPPMPSF TMANNLPMQPPVPSQ  
 TSSYSCLPTSPSVNGRSYDITYPPHMQTHMNSQPMGTSMTTSTGLISPGVSVPVQVPGSEPDMSQYWP  
 LQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001244202

ORF Size: 1266 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001244202.2](#), [NP\\_001231131.1](#)

RefSeq Size: 3133 bp

RefSeq ORF: 1269 bp

Locus ID: 18508

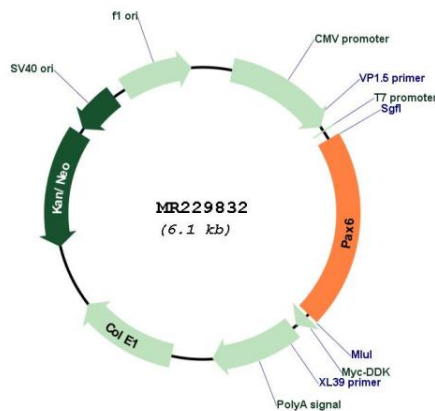
UniProt ID: [P63015](#)

Cytogenetics: 2 55.31 cM

**MW:** 47.1 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 MR229832