

Product datasheet for **MR229831**

Pax6 (NM_001244201) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pax6 (NM_001244201) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pax6
Synonyms: 1500038E17Rik; AEY1; AEY11; Dey; Gsfaey; Gsfaey11; Pax; Pax-6; Sey
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229831 representing NM_001244201
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGAACAGTCACAGCGGAGTGAATCAGCTTGGTGGTGTCTTTGTCAACGGGCGGCCACTGCCGGACT
CCACCCGGCAGAAGATCGTAGAGCTAGCTCACAGCGGGGCCCGGCGTGCACATTTCCCGAATTCTGCA
GGTATCCAACGGTTGTGTGAGTAAAATTCTGGGCAGGTATTACGAGACTGGCTCCATCAGACCCAGGGCA
ATCGGAGGGAGTAAGCCAAGAGTGGCGACTCCAGAAGTTGTAAGCAAAATAGCCAGTATAAACGGGAGT
GCCCTTCCATCTTTGCTTGGGAAATCCGAGACAGATTATTATCCGAGGGGCTGTACCAACGATAACAT
ACCCAGTGTGTCATAAAACAGAGTTCTTCGCAACCTGGCTAGCGAAAAGCAACAGATGGGCGCAGAC
GGCATGTATGATAAACTAAGGATGTTGAACGGGCAGACCCGGAAGCTGGGGCACACGCCCTGGTTGGTATC
CCGGGACTTCAGTACCAGGGCAACCCACGCAAGATGGCTGCCAGCAACAGGAAGGAGGGGAGAGAACAC
CAACTCCATCAGTTCTAACGGAGAAGACTCGGATGAAGCTCAGATGCGACTTCAGCTGAAGCGGAAGCTG
CAAAGAAATAGAACATCTTTTACCCAAGAGCAGATTGAGGCTCTGGAGAAAGATTTGAGAGGCCATT
ATCCAGATGTGTTTCCCGGAAAAGACTAGCAGCCAAAATAGATCTACCTGAAGCAAGAATACAGGTATG
GTTTTCTAATCGAAGGGCCAAATGGAGAAGAGAAGAAAAGTACCTGAGGAACAGAGAAGACAGGCCAGCAAC
ACTCCTAGTCACATTCCTATCAGCAGCAGCTTCCAGTACCAGTGTCTACCAGCCAATCCCACAGCCACCA
CACCTGTCTCCTCCTCACATCAGGTTCCATGTTGGGCCGAACAGACACCCGCCCTCACCAACACGTACAG
TGCTTTGCCACCCATGCCAGCTTACCATGGCAAACAACCTGCCTATGCAACCCCCAGTCCCAGTCAG
ACCTCCTCATACTCGTGCATGCTGCCACCAGCCCGTCAAGTGAATGGGCGGAGTTATGATACCTACACCC
CTCCGCACATGCAAAACACACATGAACAGTCAGCCCATGGGCACCTCGGGGACCACTTCAACAGGACTCAT
TTCACCTGGAGTGCAGTCCCGTCCAAGTTCGGGAGTGAACCTGACATGTCTCAGTACTGCCCTCGA
TTACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR229831 representing NM_001244201
Red=Cloning site Green=Tags(s)

MQNSHSGVNLGGVFNVRPLPDSTRQKIVELAHSGARPCDISRILQVSNCGVSKILGRYYETGSIRPRA
 IGGSKPRVATPEVVSKIAQYKRECPISIFAWEIRDRLSEGVCNTNDNIPSVSSINRVLRLNLASEKQQMGAD
 GMYDKLRMLNGQTGSWGTRPGWYPTVPGQPTQDGCQQQEGGGENTNSISSNGEDSDEAQMRLQLKRKL
 QRNRTSFTQEIEALEKEFERHTHYDPVFAERLAAKIDLPEARIQVWFSNRRAKWRREEKLRNQRQASN
 TPSHIPISSSFSTSVYQPQPPTTPVSSFTSGSMLGRDTDALTNTYSALPPMPSFTMANNLPMQPPVPSQ
 TSSYSCLMPTSPVNGRSYDITYPPHMQTHMNSQPMGTSGTTSTGLISPGVSPVQVPGSEPDMSQYWPR
 LQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

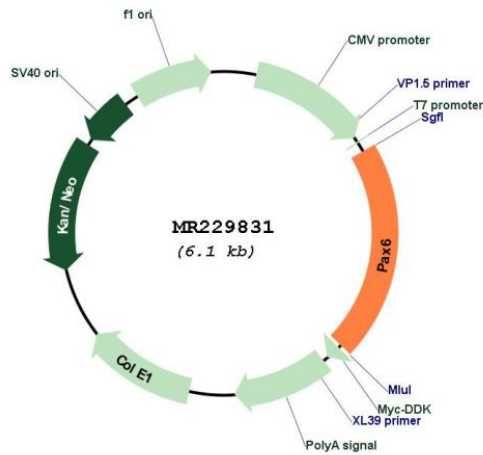
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001244201

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:	<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:	NM_001244201.2 , NP_001231130.1
RefSeq Size:	2577 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]