

Product datasheet for **MC227620**

Pax6 (NM_001244201) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax6 (NM_001244201) Mouse Untagged Clone
Tag:	Tag Free
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
Fully Sequenced ORF:	>MC227620 representing NM_001244201 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGAACAGTCACAGCGGAGTGAATCAGCTTGGTGGTGTCTTTGTCAACGGGCGGCCACTGCCGGACT
CCACCCGGCAGAAGATCGTAGAGCTAGCTCACAGCGGGGCCGGCCGTGCGACATTTCCCGAATTCTGCA
GGTATCCAACGGTTGTGTGAGTAAAATTCTGGGCAGGTATTACGAGACTGGCTCCATCAGACCCAGGGCA
ATCGGAGGGAGTAAGCCAAGAGTGGCGACTCCAGAAGTTGTAAGCAAAATAGCCAGTATAAACGGGAGT
GCCCTTCCATCTTTGCTTGGGAAATCCGAGACAGATTATTATCCGAGGGGTCTGTACCAACGATAACAT
ACCCAGTGTGTCAATAAACAGAGTTCTTCGCAACCTGGCTAGCGAAAAGCAACAGATGGGCGCAGAC
GGCATGTATGATAAACTAAGGATGTTGAACGGGCAGACCCGAAGCTGGGGCACACGCCCTGGTTGGTATC
CCGGGACTTCAGTACCAGGGCAACCCACGCAAGATGGCTGCCAGCAACAGGAAGGAGGGGAGAGAACAC
CAACTCCATCAGTTCTAACGGAGAAGACTCGGATGAAGCTCAGATGCGACTTCAGCTGAAGCGGAAGCTG
CAAAGAAATAGAACATCTTTTACCCAAGAGCAGATTGAGGCTCTGGAGAAAGATTTGAGAGGCCATT
ATCCAGATGTGTTTCCCGGAAAGACTAGCAGCCAAAATAGATCTACCTGAAGCAAGAATACAGGTATG
GTTTTCTAATCGAAGGGCCAAATGGAGAAGAGAAGAACTGAGGAACAGAGAAGACAGGCCAGCAAC
ACTCCTAGTCACATTCCTATCAGCAGCAGCTTCAGTACCAGTGTCTACCAGCCAATCCCACAGCCACCA
CACCTGTCTCCTCCTCACATCAGGTTCCATGTTGGGCCGAACAGACACCGCCCTCACCAACACGTACAG
TGCTTTGCCACCCATGCCAGCTTCACCATGGCAAACAACCTGCCTATGCAACCCCCAGTCCCAGTCAG
ACCTCCTCATACTCGTGCATGCTGCCACCAGCCCGTCAGTGAATGGGCGGAGTTATGATACCTACACCC
CTCCGCACATGCAAAACACATGAACAGTCAGCCCATGGGCACCTCGGGACCCTTCAACAGGACTCAT
TTCACCTGGAGTGCAGTCCCGTCCAAGTTCGGGAGTGAACCTGACATGTCTCAGTACTGCCCTCGA
TTACAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001244201
Insert Size:	1269 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001244201.2</u> , <u>NP_001231130.1</u>
RefSeq Size:	3609 bp
RefSeq ORF:	1269 bp
Locus ID:	18508
UniProt ID:	<u>P63015</u>
Cytogenetics:	2 55.31 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) lacks an in-frame exon in the 5' coding region compared to variant 1. It initiates from the P0 promoter. The encoded isoform (2) is shorter than isoform 1. Variants 4, 5, and 6 encode the same protein (isoform 2).</p>