

## Product datasheet for **RR214647**

### Pax6 (NM\_013001) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pax6 (NM_013001) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pax6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214647 representing NM_013001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAACAGTCACAGCGGAGTGAATCAGCTTGGTGGTGTCTTTGTCAACGGCGGCCACTGCCGGACT  
CCACCCGGCAGAAGATCGTAGAGCTAGCTCACAGCGGGGCCGGCCGTGCGACATTTCCCGAATTCTGCA  
GGTGTCCAACGGATGTGTGAGTAAAATTCTGGGCAGGTATTACGAGACTGGTCCATCAGACCCAGGGCA  
ATCGGAGGCAGTAAGCCAAGAGTGGCGACTCCAGAAGTTGTAAGCAAAAATAGCCAGTATAAACGGGAGT  
GCCCGTCCATCTTTGCTTGGGAAATCCGAGACAGATTACTCTCGAGGGGGTCTGTACCAACGACAATAT  
ACCCAGTGTGTCATCAATAAACAGAGTTCTTCGCAACCTGGCTAGCGAAAAGCAACAGATGGGCGCAGAC  
GGCATGTATGATAAACTAAGGATGCTGAACGGACAGACCGGAAGCTGGGGCACCCGCCCTGGTTGGTATC  
CCGGGACGTCACTACCAGGGCAACCCACGCAAGACGGCTGCCAGCAACAGGAAGGACAGGGAGAAAAAC  
CAACTCCATCAGCTCCAATGGAGAAGACTCGGATGAGGCTCAAATGCGGCTGCAGCTGAAGCGGAAGCTG  
CAGAGAAATAGAACATCTTTTACCAGGAGCAGATTGAGGCTCTGGAGAAAAGAGTTTGAGAGGACCCATT  
ATCCAGATGTGTTTCCCGGAAAGACTAGCAGCCAAAATAGATCTACCTGAAGCAAGGATACAGGTGTG  
GTTTTCTAACCGAAGGGCAAGTGGAGAAGAGAAGAAAAACTGAGGAACCAGAGAAGACAGGCCAGCAAC  
ACCCCGAGTCACATCCCTATCAGCAGCAGTTTTCAGTACCAGTGTCTACCAGCCAATTCACAGCCCACCA  
CACCTGTCTCCTCTTACATCGGGTTCCATGTTGGGCCGACAGACACCGCCCTACCAACACGTACAG  
TGCTTTGCCGCCGATGCCAGCTTACCATGGCAAATAACCTGCCTATGCAACCCCCAGTCCCAGTCAG  
ACCTCCTCGTACTCCTGCATGCTGCCACCAGCCCTTCAGTGAATGGGCGGAGTTATGATACCTACACCC  
CTCCGCACATGCAAAACACATGAACAGTCAGCCCATGGGCACCTCGGGAACCATTCAACAGGACTCAT  
TTCACCTGGAGTGTCAAGTCCCGTCCAAGTCCCGGAAGTGAACCTGACATGTCTCAGTACTGGCCTCGA  
TTACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR214647 representing NM\_013001  
Red=Cloning site Green=Tags(s)

MQNSHSGVNLGGVFNVRPLPDSTRQKIVELAHSGARPCDISRILQVSNCGVSKILGRYYETGSIRPRA  
 IGGSKPRVATPEVVSKIAQYKRECPSIFAWIIRDRLLSEGVCNDNIPVSSINRVLRLNLASEKQQMGAD  
 GMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQEGQGENTNSISSNGEDSDEAQMRLQLKRKL  
 QRNRTSFTQEIEALEKEFERHTYPDFARERLAAKIDLPEARIQVWFSNRRAKWRREEKLRNRRQASN  
 TPSHIPISSSFSTSVYQPIPQPTTPVSSFTSGSMLGRDTDALTNTYSALPPMPSFTMANNLPMQPPVPSQ  
 TSSYSCLPTSPSVNGRSYDITYPPHMQTHMSQPMGTSGTTSTGLISPGVSVPVQVPGSEPDMSQYWPR  
 LQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2324\\_c02.zip](https://cdn.origene.com/chromatograms/ja2324_c02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013001

**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\\_013001.2](#), [NP\\_037133.1](#)

**RefSeq Size:** 2191 bp

**RefSeq ORF:** 1269 bp

**Locus ID:** 25509

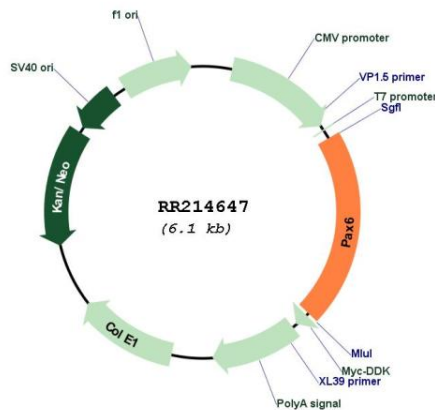
**UniProt ID:** [P63016](#)

**Cytogenetics:** 3q33

**MW:** 47.2 kDa

**Gene Summary:** homeodomain (HD)-containing transcription factor; may play a role in the differentiation of the hindbrain somatic (SM) motoneurons and V1 interneurons in the hindbrain and/or spinal cord [RGD, Feb 2006]

**Product images:**



Circular map for RR214647