

## Product datasheet for **RR216801**

### **Pax7 (NM\_001191984) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pax7 (NM_001191984) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pax7
Synonyms:	RGD1564360
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216801 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGCGCTGCCCGCGCGGTCCCCAGGATGATGAGACCCGGCCCGGGCAGAACTACCCGCGCACCG  
 GCTTCCCCTGGAAGTGTCCACCCTCTTGGCCAAAGCCGGGTCAATCAGCTTGGTGGGGTCTTCATCAA  
 CGGGCGACCCCTGCCGAACCATATCCGGCACAAGATAGTGAAATGGCCACCACGCGATCCGGCCCTGC  
 GTCATCTCCCGTCAGCTCCGCGTATCCCATGGCTGTGTCTCCAAGATTCTGTGCCGGTACCAGGAGACTG  
 GGTCCATCCGGCCCGGGCCATCGGTGGCAGCAAGCCAGACAGGTGGCGACTCCGGATGTGGAGAAAA  
 GATTGAGGAGTAAAGAGGGAGAACCCCGGAATGTTTCAGCTGGGAAATCCGGGACCGGCTGTGAAGGAC  
 GGCCACTGTGACCGCAGCACGGTGCCCTCAGTGAGTTCGATTAGCCGAGTGCTCAGAATCAAGTTCGGGA  
 AGAAAGAGGACGATGAGGAAGGAGACAAAAGGAAGAAGATGGCGAGAAGAAAGCCAAACACAGCATCGA  
 TGGCATCTGGGCGCAAAGGCAACCGTCTTGATGAAGGCTCGGACGTGGAATCAGAACCCGACCTCCCA  
 CTGAAGCGTAAGCAGCGTCGCAGTCGGACCACATTCACGGCTGAGCAGCTGGAGGAGCTGGAGAAGGCTT  
 TCGAGAGGACCACTACCCGGACATCTACACCCGGGAGGAGCTGGCACAGAGGACCAAGCTCACGGAGGC  
 ACGCGTCCAGGTCTGGTTCAGTAACCGTCGTGCGCGCTGGCGCAAGCAGGCAGGCCTAACCCAGCTGGCC  
 GCCTTCAACCACCTTCTGCCGGGAGGTTTCCACCCACTGGTATGCCACGCTGCCACCTACCAGCTGC  
 CGGACTCTGCCTATCCCACCACCACCGTCTCCAAGATGGGGGACGACAGTACACAGGCCCCAGCCCCT  
 TCCGCCATCAACCATGCATCAGGGTGGCTGGCTGCGGCCGCTGCAGCAGCTGACAGCAGCTCTGCCTAC  
 GGAGCCCGCCACAGCTTCTCCAGCTACTCGGACAGCTTCATGAACCCCGGGGCCCCCTCCAACCATGA  
 ACCCCGTCAGCAATGGCTGTCTCCTCAGGTGATGAGCATTCTCAGCAACCCGAGTGTGCCTCCACA  
 GCCCCAGGCCGACTTCTCCATCTCCCGCTGCATGGAGGCTGGACTCTGCCTCCTCCATCTCAGCCAGT  
 TGCAGCCAGCGGCCGACTCCATCAAGCCAGGAGACAGCTTGCCACCTCCCAGTCTTACTGCCACCCA  
 CCTACAGCACCACGGGTACAGTGTGGACCCTGTGGTGGTTACCAGTACAGCCAGTACGGTCAAAGTGC  
 TGTTGATTACCTGGCCAAAACGTGAGCCTGTCTACACAGCGCGTATGAAGCTCGGGGAACACTCCGCG  
 GTGCTGGGACTTCTTCTGTGGAGACGGGACAAGCCTAC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216801 protein sequence  
 Red=Cloning site Green=Tags(s)

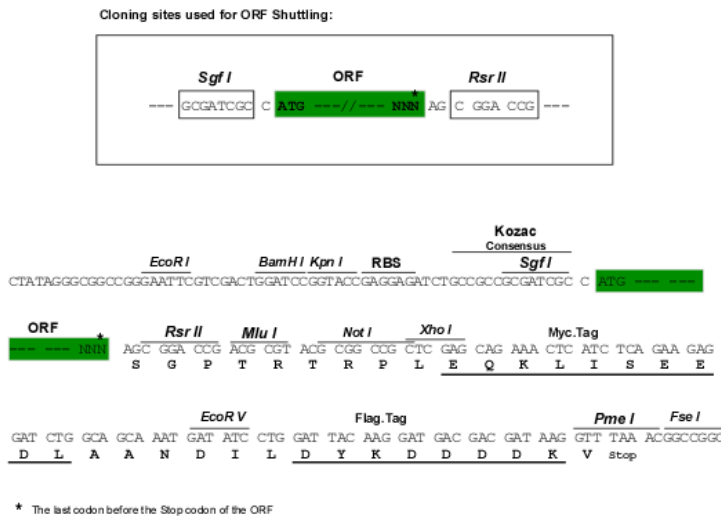
MAALPGAVPRMMRPGQNYPRGTGFPLEVSTPLGQGRVNQLGGVFINRPLPNHIRHKIVEMAHHGIRPC  
 VISRQLRVSHGCVSKILCRYQETGSIRPGAIGGSKPRQVATPDVEKKIEEYKRENPGMFSWEIRDRLKLD  
 GHCDRSTVPSVSSISRVLRIFGKKEDEEGDKKEEDGEKAKHSIDGILGDKGNRLDEGSDVESEPDLP  
 LKRKQRRSRTTFTAEQLEELEKAFERTHYDPIYTREELAQRKLTARVQVWF SNRRARWRKQAGANQLA  
 AFNHLLPGGFPTGMPTLPPYQLPDSAYPTTYSQDGGSTVHRPQPLPPSTMHQGGLAAAAAADSSSAY  
 GARHSFSSYDSFMNPGAPSNHMNPVSNGLSPQVMSILSNPSAVPPQPQADF SISPLHGGGLDSASSISAS  
 CSQRADSIKPGDSLPTSQSYCPPTYSTTGYSVDPVAGYQYSQYQGTAVDYLAKNVSLSTQRRMKLGEHSA  
 VLGLLPVETGQAY

**SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-RsrII

Cloning Scheme:



ACCN: NM\_001191984

ORF Size: 1509 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\\_001191984.1](#), [NP\\_001178913.1](#)

RefSeq Size: 1512 bp

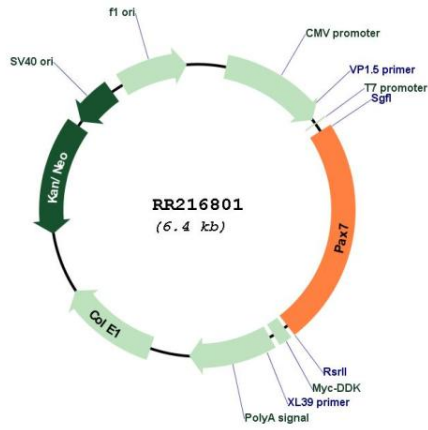
RefSeq ORF: 1512 bp

Locus ID: 500574

Cytogenetics: 5q36

MW: 54.9 kDa

Product images:



Circular map for RR216801