

## Product datasheet for **RR215164**

### **Xrcc6 (NM\_139080) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Xrcc6 (NM_139080) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xrcc6
Synonyms:	G22p1; Ku70; Kup70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR215164 representing NM\_139080  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCAGAGTGGGAATCCTACTACAAAAGTGGGGTGGAGGAAGAGGAAGAGGAGGAGCAGAGCCCTGACA  
 CAAATGGAGAATAATAATATTCAGGAAGAGATAGTTTGGTTTTCTGGTTGACGCCTCCAGGGCTATGTT  
 TGAATCTCAGGGTGAAGACGAGCTCACACCTTTTGATATGAGCATCCAGTGTATCCAGAGTGTGTACACC  
 AGTAAGATCATAAGCAGCGATCGGGATCTCTGGCAGTGGTCTATGGTACCGAGAAAGACAAAAATT  
 CAGTGAACCTCAAAGTATTTATGTCTTACAAGATCTGGATAACCCAGGAGCTAAACGAGTGTAGAGCT  
 TGACCGCTTTAAGGGACAACAGGGGAAAAAACATTTCCGAGACACAATTGGCCATGGGTCTGACTACTCT  
 TTGAGTGAAGTCTCTGGGTCTGTGCCAACCTCTCAGCGACGTCCAGTCAAGATGAGTCATAAGAGGA  
 TCATGCTATTCACCAATGAAGATGACCCCATGGTAATGACAGTGCCAAAGCCAGCCGGGCCAGGACCAA  
 AGCCAGCGATCTCGGGACACTGGGATCTTCTCGACTTGATGCACCTGAAGAAGCGAGGGGGCTTTGAC  
 GTGTCCTTGTCTACAGAGACATCATCAGCATCGCTGAGGATGAGGACCTCGGGTTCACTTTGAGGAGT  
 CAAGCAAGCTGGAAGACCTGCTAAGGAAGTTCGAGCCAAGGAGACAAAAAGCGAGTGTCTGCCAGTT  
 AAAGTTAAGCTCGGCAAGACGTAGCACTCATGGTGGGCGTTTATAACTTGGTCCAGAAAGCTAAACAAG  
 CCTTTTCCAGTGGGCTGATCGAGAAACAAACGAACCAAGTGAAGCAAGCAAGGACTTTTAAATGTAA  
 ACACAGGCAGTCTGCTCTGCCAGTGATACCAAGCGGTCTCTGACTTTTGGGACCGCTCAGATTGTGCT  
 GGAGAAAGAGGAAACAGAGGAGCTGAAGCGTTTGTATGAGCCAGGTTTGATTCTCATGGGCTTTAAGCCC  
 ATGGTAATGCTGAAGAACCACCACTACCTGAGGCCCTCTCTGTTCCTGTACCCAGAGGAGTCTTGGTCA  
 ACGGGAGCTCAACCTTGTTCAGCGCCCTGCTCACCAAGTGTGTGGAGAAGGAGGTATAGCAGTGTGTAG  
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 CAGAACATTCAGGTGACTCCCGCAGGCTTCCAGCTTGTCTTCCCTCCCTTACGCCGATGACAAGCGGAAGG  
 TGCCCTTTACGGAGAAGGTGATGGCCAACCCGGAACAGATAGACAAGATGAAGGCCATTGTTCAAAGCT  
 CCGCTTTACATACAGGAGCGACAGTTTCGAGAACCAGTGTGCAGCAGCACTTCCGGAACCTGGAGGCC  
 CTAGCTTTGGACATGATGGAGTCGGAGCAAGTGGTAGACTGACACTGCCCAAGGTTGAAGCCATAAAGA  
 AAAGACTGGGCTCCCTGGCAGATGAGTTTAAAGAACTTGTCTACCCTCCAGGTTATAATCTGAGGGAAA  
 AATTGCCAAGAGAAAAGCAGACAATGAAGTTCTGCAAGTAAAAAGCCCAAGGTAGAGTTATCAGAAGAG  
 GAGCTGAAGGACTTTTTGC AAGGGCACACTGGCAAGCTCACTGTGCCTGCACTGAGGGACATCTGCA  
 AGGCCTATGGGCTAAAGAGTGGACCGAAGAAGCAGGAAGTACTCGAGGCTCTCAGCAGCACTTGGAGAA  
 GAAC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

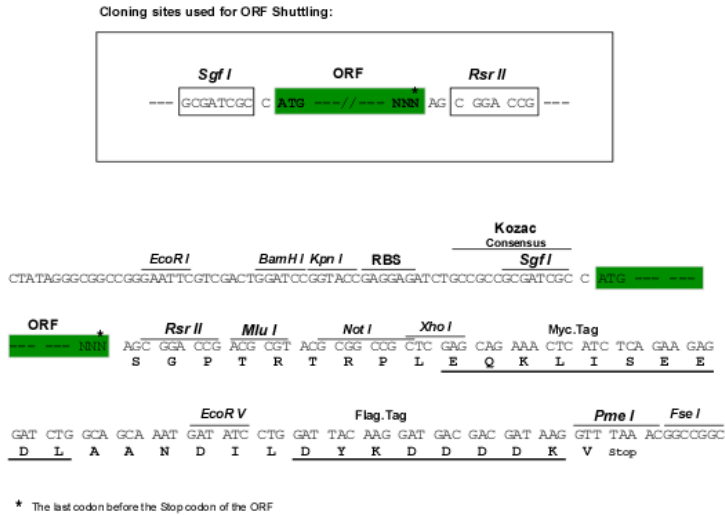
>RR215164 representing NM\_139080  
 Red=Cloning site Green=Tags(s)

MSEWESYYKTEGEEEEEEQSPDTNGEYKYSGRDSLIFLVDASRAMFESQGEDELTPFDMSIQCIQSVYT  
 SKIISDRDLLAVVFGTEKDKNSVNFKSIYVLQDLNPGAKRVELEDRFKGQQGKKHFRDTIGHGSDYS  
 LSEVLWVCANLFSVQFKMSHKRIMLFTNEDDPHGNSAKASRARTKASDLRDTGIFLDMHLKRRGGFD  
 VSLFYRDIISIAEDEDLGVHFEESKLEDLLRKVRAKETKKRVL SRLKFKLGKDVALMVGYYNLVQKANK  
 PFPVRLYRETNEPVKTKTRTFNVNTGSLLLPSDTKRSLTFGTRQIVLEKEETEELKRFDEPGLILMGFKP  
 MVMLKNHHYLRPSLFLYPEESLVNGSSTLF SALLTKCVEKEVIAVCRYTARKNVSPYFVALVPQEEELDD  
 QNIQVTPAGFQLVFLPYADDRKVPFTEKVMANPEQIDMKAI VQKLRFTYRSDSFENPVLQQHFRNLEA  
 LALDMMESQVVDLTLPKVEAIKKRLGSLADEFKELVYPPGYNPEGKIAKRKADNEGSASKPKVELSEE  
 ELKDLFAKGLTGLTPALRDICKAYGLKSGPKKQELLEALSRHLEKN

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM\_139080

ORF Size: 1824 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\\_139080.2](#), [NP\\_620780.2](#)

RefSeq Size: 2070 bp

RefSeq ORF: 1827 bp

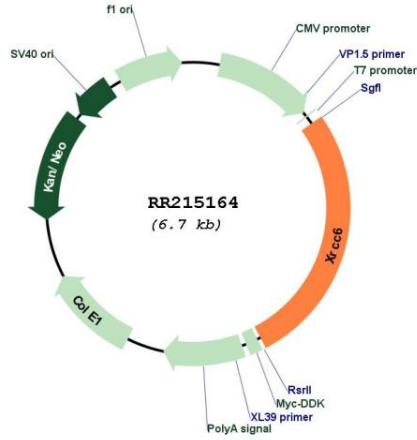
Locus ID: 25019

Cytogenetics: 7q34

**MW:** 69.5 kDa

**Gene Summary:** DNA targeting component of the DNA-dependent protein kinase complex DNA-PK, which plays a role in DNA double strand break repair [RGD, Feb 2006]

**Product images:**



Circular map for RR215164