

## Product datasheet for MR202365

### Xrcc3 (BC043073) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Xrcc3 (BC043073) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Xrcc3  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR202365 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGACTTGGATCAGCTGGACCTAAACCCCGAATTACTGCTGCGGTTAAGAGGGGCAGACTGAAGTCAGTGAAGGAGATTCTGTGCTACTCCGGACCAGACTTGACGCGGCTCACCGCCTGCCAGCCACGATGTGCA GTGCTGCTGAGAGCTGCCTCTCTACACCTTCGGGAAGCCGCTCCTCTCAGCACTGCATCTGTTCCAG CAGAAGGAGAGCTTCCCTGAGCAGCATCAACGCCTGAGCCTAGGCTGCCCTGTCTGGATCAGTTCCTGG GTGGAGCCTGCCCTGGAGGGCATCACTGGCTGGCTGCAGCTCAGCAGGAAAGACCCAGCTGGC GCTACAGCTCTGCTGGCTGTGCAAGTCCCAAGACAATATGGAGGCTAGAGGCCGGGCTGTCTACATC TGCACAGAAGATGCCTTCCCCAGCAAGCGGCTGTGGCAGCTCATCGCGCAGCAGCGGAGGCTGCGGACAG ACGCGCTGAGGAGCTGATCGAGAAGATCAGGTTAGCAACCACATCTTCATTGAACACGCGGCCGACGT GCCCATTTCTGTTGTGAGTTCCACCTTCAGGCCTCAGCCATCAGGGCGAAGCTCTGCTCTCGTGGGG CCACACTGCGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202365 protein sequence  
 Red=Cloning site Green=Tags(s)

MDLDQLDLNPRITAAVKRGRKLSVKEILCYSGPDLQRLTGLPSHDVQCLLRAASLHLRGSRVLSALHLFQ QKESFPEQHQLSLGCPVLDQFLGGGLPLEGITGLAGCSSAGKTQLALQLCLAVQFPRQYGGLEAGAVYI CTEDAFPSKRLWQLIAQRRRLRTDAPEELIEKIRFSNHIFIEHAADVPHFVVSSTFRPQPSGRSSCSRWG PHCED

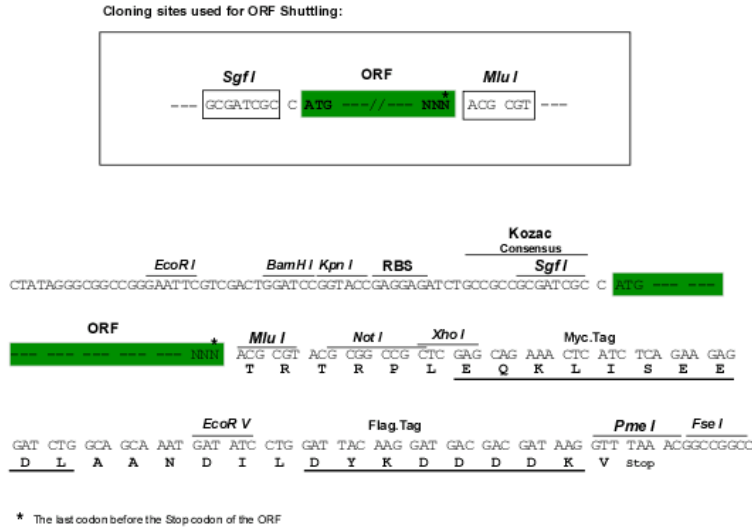
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC043073

**ORF Size:** 645 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:** [BC043073](#), [AAH43073](#)

**RefSeq Size:** 2318 bp

**RefSeq ORF:** 647 bp

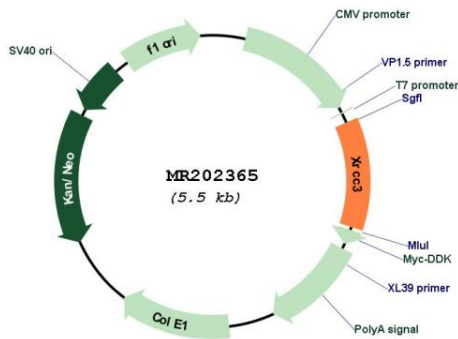
**Locus ID:** 74335

**Cytogenetics:** 12 F1

**MW:** 23.8 kDa

**Gene Summary:** This gene encodes a member of the RecA/Rad51-related protein family that participates in homologous recombination to maintain chromosome stability and repair DNA damage. This gene functionally complements Chinese hamster irs1SF, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents and is chromosomally unstable. Allelic variants in the human gene are associated with susceptibility to breast cancer and cutaneous malignant melanoma. [provided by RefSeq, Sep 2015]

**Product images:**



Circular map for MR202365