

Product datasheet for MC210148

Xrcc2 (NM_020570) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xrcc2 (NM_020570) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xrcc2
Synonyms:	4921524O04Rik; 8030409M04Rik; RAD51; RecA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC210148 representing NM_020570 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTAGCGACTTTCGAGAGCGGAATCCGGGACAGAGCTCCTTGCCCGACTTGAAGGCAGAAGCTCGT
TAAAAGAACTAGAACCCAACTGTTTGCTGATGAAGATTCACAGTGCACGGTGATATTTTTGAATTTCA
TGGTCCAGAAGGAACGGGAAAACAGAAATGCTTTATCATTTAACAGCCGATGTATACTCCAAAATCA
GAGGGTGGACTGCAAATAGAAGTCTTATTATTGATACAGATTACCACTTGACATGCTACGGCTCGTGA
CAGTTCTTGAACACAGACTCTCGCAAAGCTCCGAGGAAGCCATGAAGCTGTGCCTAGCCAGTTGTTCTT
GGCGTACTGCAGCAGCAGCATGCAGTTACTGCTCACGCTGCACTCCCTGGAAGCCCTGCTCTGCAGTCGC
CCCTCTCTGCTTCTCATTGTGGACAGCCTGTCGTCTTTTTACTGGATAGACCGAGTCAGTGGAGGAG
AGAGTGTGGCCCTGCAGGAGTCAACGCTGCAGAAGTCTCAGCTCCTAGAGCGGCTTGTCACTGAGTA
CCGCTTGCTGCTTTTTGCGACAACGCAGAGTCTAATGCAGAAAGGCTCAGACTCTGCAGACGGCCCTTCT
TCCTCAAGCACCCATGCGATGGAGACATGGGCTACAGAGCCTATCTCTGCAAGGCTGGCAGAGGGTCTG
TGAAGCACAGGGTCATCTTCTCCAGGGACGACGAGCCAAAGAGCAGCCGGTCTCATTAGTTTCACGTCA
TTAAAAAGTAACAGTTTAAAAAACACAGTTTATGGTCAGAGAAAGTGGGGTGGAGTTTTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_020570
Insert Size:	837 bp



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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).
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:	NM_020570.2 , NP_065595.2
RefSeq Size:	3230 bp
RefSeq ORF:	837 bp
Locus ID:	57434
UniProt ID:	Q9CX47
Cytogenetics:	5 B1
Gene Summary:	Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the Rad21 paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, BCDX2 acts downstream of BRCA2 recruitment and upstream of RAD51 recruitment. BCDX2 binds predominantly to the intersection of the four duplex arms of the Holliday junction and to junction of replication forks. The BCDX2 complex was originally reported to bind single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA (By similarity).[UniProtKB/Swiss-Prot Function]