

Product datasheet for **RG211735**

XRCC3 (NM_001100118) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: XRCC3 (NM_001100118) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: XRCC3
Synonyms: CMM6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211735 representing NM_001100118
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTGGATCTACTGGACCTGAATCCAGAATTATTGCTGCAATTAAGAAAGCCAACTGAAATCGG
TAAAGGAGGTTTTACACTTTTCTGGACCAGACTGAAGAGACTGACCAACCTCTCCAGCCCCGAGGTCTG
GCACTTGCTGAGAACGGCTCCTTACACTTGC GGGAAGCAGCATCCTTACAGCACTGCAGCTGCACCAG
CAGAAGGAGCGGTTCCCCACGCAGCACCAGCGCCTGAGCCTGGGCTGCCCGGTGCTGGACGCGTCTGCC
GCGGTGGCTGCCCTGGACGGCATCACTGAGCTGGCCGGACGCAGCTCGGCAGGAAGACCCAGCTGGC
GCTGCAGCTCTGCCTGGCTGTGCAGTTCGCGCGGACGCAGCAGGAGGCTGGAGGCTGGAGCCGTCTACATC
TGCACGGAAGACGCTTCCCGCACAAGCGCTGCAGCAGCTCATGGCCCAGCAGCCGCGGTGCGCACTG
ACGTTCCAGGAGAGCTGCTTCAGAAGCTCCGATTTGGCAGCCAGATCTTCATCGAGCACGTGGCCGATG
GGACACCTTGTGGAGTGTGAATAAGAAGGTCCCCGTACTGCTGTCTCGGGCATGGCTCGCCTGGT
GTCATCGACTCGGTGGCAGCCCCATTCCGCTGTGAATTTGACAGCCAGGCTCCGCCCCAGGGCCAGGC
ATCTGCAGTCCCTGGGGCCACGCTGCGTGAGCTGAGCAGTGCCTTCCAGAGCCCTGTGCTGTGCATCAA
CCAGGTGACAGAGGCCATGGAGGAGCAGGGCCAGCACACGGGCCGCTGGGTTCTGGGACGAACGTGTT
TCCCCAGCCCTTGGCATAACCTGGGCTAACAGCTCCTGGTGAGACTGCTGGCTGACCCGCTCCGCGAGG
AAGAGGCTGCCCTCGGCTGCCAGCCCGACCCTGCGGGTGTCTCTGCCCCACCTGCCCCCTCCTCCTC
CTGTTCTACACGATCAGTGCCGAAGGGTGCAGGGACACCTGGGACCCAGTCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211735 representing NM_001100118
 Red=Cloning site Green=Tags(s)

MDLDDLNLNPRIAAIKKAKLKSVEVLHFGPDLKRLTNLSSPEVHLLRTASLHLRGSSILTALQLHQ
 QKERFPTQHQRLSLGCPVLDALLRGGLPLDGITELAGRSSAGKTQLALQLCLAVQFPRQHGGLEAGAVYI
 CTEDAFPHKRLQQLMAQQPRLRTDVPGELLQKLRFGSQIFIEHVADVDTLLECVNKKVPVLLSRGMARLV
 VIDSVAAPFRCEFDSDQASAPRARHLQSLGATLRELSSAFQSPVLCINQVTEAMEEQGAHGPLGFWDERV
 SPALGITWANQLLVRLADRLREEEAALGCPARTLRVLSAPHLPPSSCSYTI SAEGVGRGTPGTQSH

TRTRPLE - GFP Tag - V

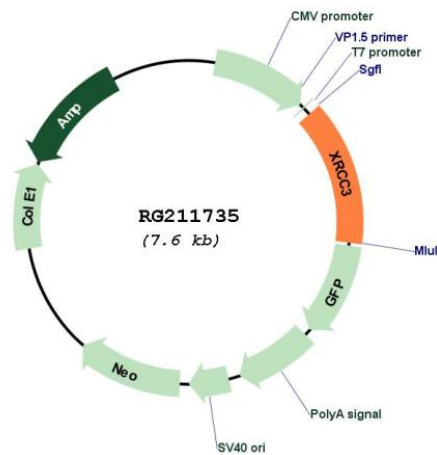
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001100118

ORF Size: 1038 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:	<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_001100118.2
RefSeq Size:	2563 bp
RefSeq ORF:	1041 bp
Locus ID:	7517
UniProt ID:	O43542
Cytogenetics:	14q32.33
Protein Families:	Druggable Genome
Protein Pathways:	Homologous recombination
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. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]