

Product datasheet for **MG209603**

Xrcc1 (NM_009532) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Xrcc1 (NM_009532) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Xrcc1 |
| Synonyms: | Xrcc-1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG209603 representing NM_009532
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGAGATCAGCCTCCGCCAGTCGTGTCTGCAGCAGCCAGGACTCGACCCATTGTGCCGAAAATC
 TTCTCAAGGCGGACACTTACCGAAGTGGCGGGCAGCCAAGGCAGGAGAGAAGACCATCTCTGTGGTCCT
 ACAGTTGGAGAAGGAGGAGCAGATCCACAGTGTGGACATTGGCAATGATGGCTCGGCCTTTGTGGAGGTG
 CTAGTGGGCAGCTCGGCTGGAGGGGCCACAGCTGGTGAACAGGACTATGAGGTCCTTCTGGTCACCTCCT
 CTTTCATGTCCCCTCTGAGAGCCGAAGTGGCTCAAATCCAACCGTGTTCGCATTTTTGGACCTGACAA
 GTTAGTCCGGGCAGCAGCGGAGAAGCGCTGGGACCGTGTAAAATTGTGTGCAGCCAGCCATACAGCAAG
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 GAAGCCAGGGCTCTCTTCTCAGTCGTATCAACAAGACGTCATCAGCCTCTACGAGTGACCCAGCAGGA
 CCAGCTATGCAGCAGCTACACTGCAGGCTCTAGTGCAGCCTCCTCAGCCTCTCCAGTCCCAAGGTTG
 TGGGCAGCTCTTCCAAGCCTCAGGAGCCTCCCAAAGGGAAGAGAAAACCTGGACTTGAGTCTAGAAGACAG
 GAAACCTCCCAGCAAACCTCGGCAGGGCCATCCACCCTCAAGAGACCCAAATTGTCTGTCCCTAGTCGT
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 CCCAGACTTCTCGAGGGCAAACACTTCTTCTGTATGGCGAGTCCCTGGGGATGAGAGGAGGAGGCTC
 ATCCGCTACGTGACCGCTTCAATGGCGAGCTCGAGGACTATATGAATGAGCGGGTCCAGTTCGTATCA
 CGGCCAGGAGTGGGACCCCAACTTTGAGGAGGCCTGATGGAACCCCTCCCTGGCCTTCGTGCGGCC
 CCGGTGGATCTACAGTTGAATGAGAAGCAGAAGTACTCCCCATCAGCTCTATGGGGTGGTGCCCAG
 GCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209603 representing NM_009532
 Red=Cloning site Green=Tags(s)

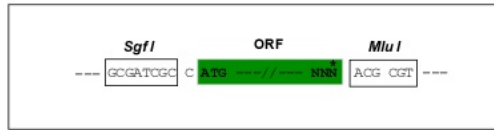
MPEISLRHVVSCSSQDSTHCAENLLKADTYRKWRAAKAGEKTISSVVLQLEKEEQIHSVLDIGNDGSAFVEV
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 DSPYGLSFVKFHSPPDKDEAEATSQKVTVTKLQFRVKEEDDSANSLKPGALFFSRINKTSSASTSDPAG
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 TPAAPASTPAQRAVPGKPRGEGTEPRGARTGPQELGKILQGVVVVLSGFQNPFRSELKALDELGAKYR
 PDWTPDSTHLICAFANTPKYSQVLGLGGRIVRKEWVLDCHHMRRRLPSRRYLMAGLGSSEDEGDSHSES
 GEDEAPKLPQKRQPKAKTQAAGPSSPPRPPTPKETKAPSPGQDNSDTEGEESEGRDNGAEDSGDTEDE
 LRRVAKQREQRQPPAPEENGEDPYAGSTDENTDSETPSEADLPIPELPDFFEGKHFFLYGEFFPGDERRRL
 IRYVTAFNGELEDYMNERVQFVITAQEWDPNFEEALMENPSLAFVRRWIYSCNEKQKLLPHQLYGVVPQ
 A

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_009532

ORF Size: 1893 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_009532.5](#)

RefSeq Size: 2547 bp

RefSeq ORF: 1896 bp

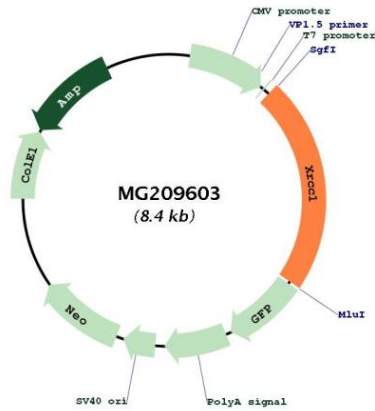
Locus ID: 22594

UniProt ID: [Q60596](#)

Cytogenetics: 7 11.42 cM

Gene Summary: Involved in DNA single-strand break repair by mediating the assembly of DNA break repair protein complexes (By similarity). Probably during DNA repair, negatively regulates ADP-ribose levels by modulating ADP-ribosyltransferase PARP1 activity (PubMed:28002403). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209603