

## Product datasheet for **RG204783**

### **XRCC4 (NM\_022406) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** XRCC4 (NM\_022406) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** XRCC4  
**Synonyms:** SSMED  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG204783 representing NM\_022406  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAGAAAAAATAGCAGAATCCACCTGTTTCTGAACCCAGTATAACTCATTTTCTACAAGTATCTT  
GGGAGAAAACACTGGAATCTGGTTTTGTTATTACACTTACTGATGGTCATTCAGCATGGACTGGGACAGT  
TTCTGAATCAGAGATTTCCCAAGAAGCTGATGACATGGCAATGGAAAAAGGAAATATGTTGGTGAAGT  
AGAAAAGCATTGTTGTCAGGAGCAGGACCAGCTGATGTATACACGTTAATTTTTCTAAAGAGTCTTGTT  
ATTTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTGACTTGGTTCCTTCAACCTAGAGAAAGTTGA  
AAACCCAGCTGAAGTCATTAGAGAACTTATTTGTTATTGCTTGGACACCATTGCAGAAAAATCAAGCCAAA  
AATGAGCACCTGCAGAAAAGAAAATGAAAGGCTTCTGAGAGATTGGAATGATGTTCAAGGACGATTTGAAA  
AATGTGTGAGTGCTAAGGAAGCTTTGGAGACTGATCTTTATAAGCGGTTTATTCTGGTGTGAAATGAGAA  
GAAAACAAAAATCAGAAGTTTGCATAATAAATTATTAATGCAGCTCAAGAACGAGAAAAGGACATCAAA  
CAAGAAGGGGAACTGCAATCTGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGTACTG  
ATGAGGAAAGTAAAACCAACTGATCTCTCTGGGTTGGCTTCAAGTAAAGATGATTCCAT  
TATTTCAAGTCTTGATGTCACTGATATTGCACCAAGTAGAAAAAGGAGACAGCGAATGCAAAGAAATCTT  
GGGACAGAACCTAAAATGGCTCCTCAGGAGAATCAGCTTCAAGAAAAGGAAAATCTAGGCCTGATTCTT  
CACTACCTGAGACGTCTAAAAAGGAGCACATCTCAGCTGAAAACATGTCTTTAGAAAACCTGAGAAAACAG  
CAGCCCAAGACCTCTTTGATGAGATT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

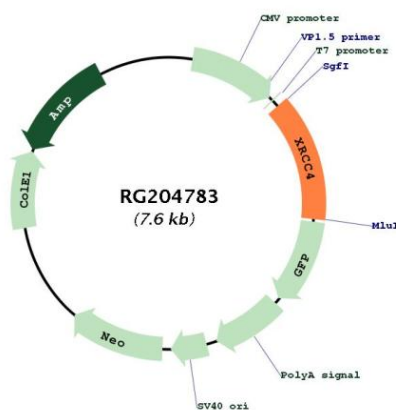


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<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_022406.4</u>
<b>RefSeq Size:</b>	1665 bp
<b>RefSeq ORF:</b>	1011 bp
<b>Locus ID:</b>	7518
<b>UniProt ID:</b>	<u>Q13426</u>
<b>Cytogenetics:</b>	5q14.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Non-homologous end-joining
<b>Gene Summary:</b>	The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand breaks. This protein plays a role in both non-homologous end joining and the completion of V(D)J recombination. Mutations in this gene can cause short stature, microcephaly, and endocrine dysfunction (SSMED). Alternate transcript variants such as NM_022406 are unlikely to be expressed in some individuals due to a polymorphism (rs1805377) in the last splice acceptor site. [provided by RefSeq, Oct 2019]

**Product images:**



Circular map for RG204783