

## Product datasheet for MR204140

### Ercc1 (NM\_007948) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ercc1 (NM_007948) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ercc1
Synonyms:	Ercc-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204140 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCCTGGGAAGGACGAGGAAAGTCGGCCACAGCCCTCAGGACCACCCACCAGGAGGAAGTTTGTTA  
TCCCACTGGAGGAAGAAGAGGTGCCCTGTGCAGGGGTCAAGCCCTTATTCAGATCGTCACGGAATCCCAC  
CATCCCAGCAACCTCAGCCCACGTGGCCCTCAGACGTATGCTGAGTACGCCATCACCCAGCCTCCAGGA  
GGGGCTGGGGCCACAGTCCCACAGGCTCTGAACCTGCGGCAGGAGAGAACCCAGCCAGACCCTGAAAA  
CAGGAGCAAAGTCTAATAGCATCATCGTGAGCCCGAGGCAGGGGCAACCCCGTGTGAAGTTTGTGCG  
CAATGTGCCCTGGGAATTCGGTGAGGTGATTCGGATTATGTGCTGGGCCAGAGCACCTGCGCCCTTTTC  
CTCAGCCTCCGCTACCACAACCTCCATCCAGACTACATCCATGAACGGCTGCAGAGCCTGGGAAGAAGT  
TCGCCCTTCGTGTGCTGCTGGTTCAAGTGGATGTGAAAGATCCCCAGCAGGCTCTCAAGGAGCTGGCTAA  
GATGTGCATCTTGGCTGACTGCACCCTGGTCTGGCCTGGAGTGCAGAGGAAGCAGGGCGGTACCTGGAG  
ACCTACAAGGCGTATGAGCAGAAGCCAGCCGACCTCCTTATGGAAAAGCTGGAGCAGAATTCCTATCAC  
GGGCCACTGAGTGTCTGACCACCGTAAATCTGTGAACAAGACCAGCAGCCAGACCCTCCTGGCTACATT  
TGGATCCCTGGAACAGCTCTTACCAGCATCAAGGGAGGATCTAGCCTTATGCCCGGCCCTGGGCCACAG  
AAGGCCCGCAGGCTCTTTGAAGTACTACACGAACCCCTCCTCAAAGTGCCTCGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204140 protein sequence  
Red=Cloning site Green=Tags(s)

MDPGKDEESRPQPSGPTRRKVFIPLEEEVPCAGVKPLFRSSRNPTIPATSAHVAPQTYAEYAITQPPG  
 GAGATVPTGSEPAAGENPSQTLKTGAKSNSIIIVSPRQRGNPVLKFRNVPWFEGEIVPDYVLGQSTCALF  
 LSLRYHNLHPDYIHERLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLVLAWSAEEAGRYLE  
 TYKAYEQKPADLLMEKLEQNFLSRATECLTTVKSVNKTDSTLLATFGSLEQLFTASREDLALCPGLGPQ  
 KARRLFEVLHEPFLKVPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007948

**ORF Size:** 897 bp

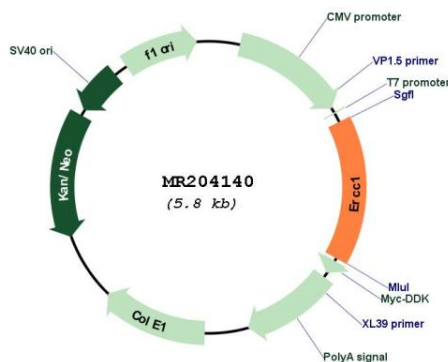
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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><a href="#">NM_007948.2</a></u>
<b>RefSeq Size:</b>	1099 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	13870
<b>UniProt ID:</b>	<u><a href="#">P07903</a></u>
<b>Cytogenetics:</b>	7 9.6 cM
<b>MW:</b>	32.9 kDa
<b>Gene Summary:</b>	<p>Non-catalytic component of a structure-specific DNA repair endonuclease responsible for the 5'-incision during DNA repair. Responsible, in conjunction with SLX4, for the first step in the repair of interstrand cross-links (ICL). Participates in the processing of anaphase bridge-generating DNA structures, which consist in incompletely processed DNA lesions arising during S or G2 phase, and can result in cytokinesis failure. Also required for homology-directed repair (HDR) of DNA double-strand breaks, in conjunction with SLX4 (By similarity). [UniProtKB/Swiss-Prot Function]</p>

### Product images:



Circular map for MR204140