

## Product datasheet for **MG204140**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ercc1 (NM\_007948) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ercc1  
**Synonyms:** Ercc-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204140 representing NM\_007948  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACCCTGGGAAGGACGAGGAAAGTCGGCCACAGCCCTCAGGACCACCCACCAGGAGGAAGTTTGTTA  
 TCCCACTGGAGGAAGAAGAGGTGCCCTGTGCAGGGGTCAAGCCCTTATTAGATCGTCACGGAATCCCAC  
 CATCCCAGCAACCTCAGCCCACGTGGCCCTCAGACGTATGCTGAGTACGCCATACCCAGCCTCCAGGA  
 GGGGCTGGGGCCACAGTCCCACAGGCTCTGAACCTGCGGCAGGAGAGAACCCAGCCAGACCCTGAAAA  
 CAGGAGCAAAGTCTAATAGCATCATCGTGAGCCCGAGGCAGAGGGCAACCCCGTTGAAGTTTGTGCG  
 CAATGTGCCCTGGGAATTCGGTGAGGTGATTCCCGATTATGTGCTGGGCCAGAGCACCTGCGCCCTTTTC  
 CTCAGCCTCCGCTACCACAACCTCCATCCAGACTACATCCATGAACGGCTGCAGAGCCTGGGGAAGAACT  
 TCGCCCTTCGTGTGCTGCTGGTTCAAGTGGATGTGAAAGATCCCCAGCAGGCTCTCAAGGAGCTGGCTAA  
 GATGTGCATCTTGGCTGACTGCACCCTGGTCTGGCCTGGAGTGCAGAGGAAGCAGGGCGGTACCTGGAG  
 ACCTACAAGGCGTATGAGCAGAAGCCAGCCGACCTCCTTATGGAAAAGCTGGAGCAGAATTCCTATCAC  
 GGGCCACTGAGTGTCTGACCACCGTAAATCTGTGAACAAGACCAGCCAGACCCTCCTGGCTACATT  
 TGGATCCCTGGAACAGCTCTTACCAGCATCAAGGGAGGATCTAGCCTTATGCCCGGGCCTGGGCCACAG  
 AAGGCCCGCAGGCTCTTTGAAGTACTACACGAACCCCTCCTCAAAGTGCCTCGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204140 representing NM\_007948  
Red=Cloning site Green=Tags(s)

MDPGKDEESRPQPSGPTRRKFIPLLEEEVPCAGVKPLFRSSRNPTIPATSAHVAPQTYAEYAITQPPG  
 GAGATVPTGSEPAAGENPSQTLKTGAKSNSIIVSPRQRGNPVLKFRVNPWFEGEIVPDYVLGQSTCALF  
 LSLRYHNLHPDYIHERLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLVLAWSAEEAGRYLE  
 TYKAYEQKPADLLMEKLEQNFLSRATECLTTVKSVNKTDSTLLATFGSLEQLFTASREDLALCPGLGPQ  
 KARRLFEVLHEPFLKVPK

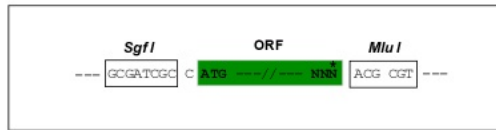
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2528\\_f10.zip](https://cdn.origene.com/chromatograms/ja2528_f10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_007948

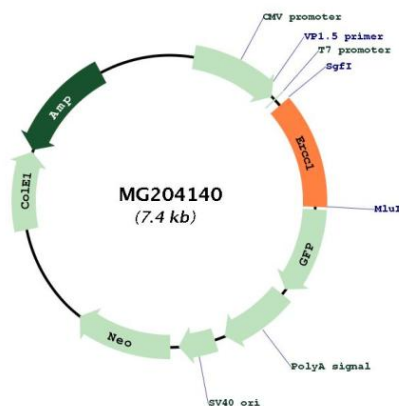
**ORF Size:** 894 bp

**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](#)

<b>OTI Annotation:</b>	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>	<a href="#">NM_007948.2</a>
<b>RefSeq Size:</b>	1099 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	13870
<b>UniProt ID:</b>	<a href="#">P07903</a>
<b>Cytogenetics:</b>	7 9.6 cM
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for MG204140