

Product datasheet for MR224948

Ercc1 (NM_001127324) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ercc1 (NM_001127324) 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: >MR224948 representing NM_001127324
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGACCCTGGGAAGGACGAGGAAAGTCGGCCACAGCCCTCAGGACCACCCACCAGGAGGAAGTTTGTTA
 TCCCCTGGAGGAAGAAGAGGTGCCCTGTGCAGGGGTCAAGCCCTTATTAGATCGTCACGGAATCCCAC
 CATCCCAGCAACCTCAGCCACGTGGCCCTCAGACGTATGCTGAGTACGCCATACCCAGCCTCCAGGA
 GGGGCTGGGGCCACAGTGCCACAGGCTCTGAACCTGCGGCAGGAGAGAACCCAGCCAGACCCTGAAAA
 CAGGAGCAAAGTCTAATAGCATCATCGTGAGCCCGAGGCAGAGGGCAACCCCGTTGAAGTTTGTGCG
 CAATGTGCCCTGGGAATTCGGTGAGGTGATTCCCGATTATGTGCTGGGCCAGAGCACCTGCGCCCTTTTC
 CTCAGCCTCCGCTACCACAACCTCCATCCAGACTACATCCATGAACGGCTGCAGAGCCTGGGAAGAACT
 TCGCCCTTCGTGTGCTGCTGTTCAAGTGGATGTGAAAGATCCCCAGCAGGCTCTCAAGGAGCTGGCTAA
 GATGTGCATCTTGGCTGACTGCACCCTGGTCTGGCCTGGAGTGCAGAGGAAGCAGGGCGGTACCTGGAG
 ACCTACAAGGCGTATGAGCAGAAGCCAGCCGACCTCCTTATGGAAAAGCTGGAGCAGAATTCCTATCAC
 GGGTATCACTGTGCCTCTGTCTCCTGTACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224948 representing NM_001127324
Red=Cloning site Green=Tags(s)

MDPGKDEESRPQPSGPPTRRKFVIPLEEEEEVPCAGVKPLFRSSRNPTIPATSAHVAPQTYAEYAITQPPG
 GAGATVPTGSEPAAGENPSQTLKTGAKSNSIIIVSPRQRGNPVLKFRNVPWFEGEVIPDYVLGQSTCALF
 LSLRYHNLHPDYIHERLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLVLAWSAEEAGRYLE
 TYKAYEQKPADLLMEKLEQNFLSRVSLCLLSSCTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001127324

ORF Size: 735 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_001127324.1](#), [NP_001120796.1](#)

RefSeq Size: 1241 bp

RefSeq ORF: 738 bp

Locus ID: 13870

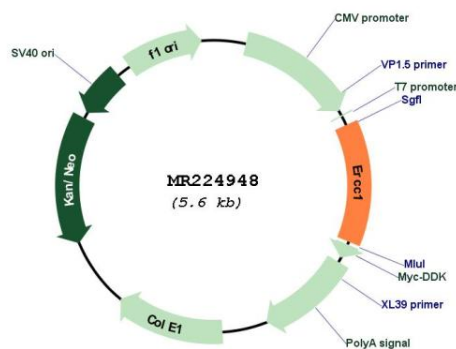
UniProt ID: [P07903](#)

Cytogenetics: 7 9.6 cM

MW: 27.4 kDa

Gene Summary: 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 MR224948