

Product datasheet for **MG224948**

Erc1 (NM_001127324) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erc1 (NM_001127324) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Erc1
Synonyms:	Erc1-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224948 representing NM_001127324 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCCTGGGAAGGACGAGGAAAGTCGGCCACAGCCCTCAGGACCACCCACCAGGAGGAAGTTTGTTA
TCCCCTGGAGGAAGAAGAGGTGCCCTGTGCAGGGGTCAAGCCCTTATTCAGATCGTCACGGAATCCCAC
CATCCCAGCAACCTCAGCCACGTGGCCCTCAGACGTATGCTGAGTACGCCATCACCCAGCCTCCAGGA
GGGGCTGGGGCCACAGTGCCACAGGCTCTGAACCTGCGGCAGGAGAGAACCCAGCCAGACCCTGAAAA
CAGGAGCAAAGTCTAATAGCATCATCGTGAGCCCGAGGCAGAGGGCAACCCCGTTGAAGTTTGTGCG
CAATGTGCCCTGGGAATTCGGTGAGGTGATTCCCGATTATGTGCTGGGCCAGAGCACCTGCGCCCTTTTC
CTCAGCCTCCGCTACCACAACCTCCATCCAGACTACATCCATGAACGGCTGCAGAGCCTGGGGAAGAACT
TCGCCCTTCGTGTGCTGCTGTTCAAGTGGATGTGAAAGATCCCCAGCAGGCTCTCAAGGAGCTGGCTAA
GATGTGCATCTTGGCTGACTGCACCCTGGTCTGGCCTGGAGTGCAGAGGAAGCAGGGCGGTACCTGGAG
ACCTACAAGGCGTATGAGCAGAAGCCAGCCGACCTCCTTATGAAAAGCTGGAGCAGAATTCCTATCAC
GGTATCACTGTGCCTCTGTCTCCTGTACCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224948 representing NM_001127324
Red=Cloning site Green=Tags(s)

MDPGKDEESRPQPSGPPTRRKFVIPLLEEEVPCAGVKPLFRSSRNPTIPATSAHVAPQTYAEYAITQPPG
 GAGATVPTGSEPAAGENPSQTLKTGAKSNSIIVSPRQRGNPVLKFRNVPWFEGEVIPDYVLGQSTCALF
 LSLRYHNLHPDYIHERLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLVLAWSAEEAGRYLE
 TYKAYEQKPADLLMEKLEQNFLSRVSLCLLSSCTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

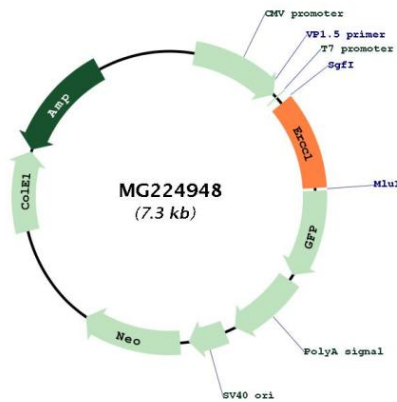
Locus ID: 13870

UniProt ID: [P07903](#)

Cytogenetics: 7 9.6 cM

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 MG224948