

Product datasheet for RC228204

ERCC1 (NM_001166049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERCC1 (NM_001166049) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERCC1
Synonyms:	COFS4; RAD10; UV20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228204 representing NM_001166049 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCCTGGGAAGGACAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGA
TACCCCTCGACGAGGATGAGGTCCTCCTGGAGTGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCC
CACTGTGGACACCTCGGCCAGGCGGCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAA
GGGGCTGGGGCCACGTGCCCCACAGGGTCAGAGCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAAC
CCGGGGCAAATCCAACAGCATATTGTGAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCG
CAATGTGCCCTGGGAATTTGGCGACGTAATTCGCGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTC
CTCAGCCTCCGCTACCACAACCTGCACCCAGACTACATCCATGGGCGGCTGCAGAGCCTGGGGAAGAACT
TCGCTTGCGGGTCTGTGTCAGGTGGATGTGAAAGATCCCCAGCAGGCCCTCAAGGAGCTGGCTAA
GATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCGAGGAAGCTGGGCGGTACCTGGAG
ACCTACAAGGCCATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGAGCAGGACTTCGTCTCCC
GGTCTCTGGAACAGCTCATCGCCGATCAAGAGAAGATCTGGCCTTATGCCAGGCTGGGCCCTCAGAA
AGCCCCGAGGCTGTTTGTGCTGCACGAGCCCTTCTGAAAGTACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228204 representing NM_001166049
Red=Cloning site Green=Tags(s)

MDPGKDKEGVPQPSGPPARKKFVIPLDEDEVPPGVAKPLFRSTQSLPTVD TSAQAAPQTYAEY AISQPLE
 GAGATCPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNPVLK FVRNVPWFEGDVIPDYVLGQSTCALF
 LSLRYHNLHPDYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEEAGRYLE
 TYKAYEQKPADLLMEKLEQDFVSRSLLEQLIAASREDLALCPGLGPQKARRLFDVLHEPFLKVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001166049

ORF Size: 819 bp

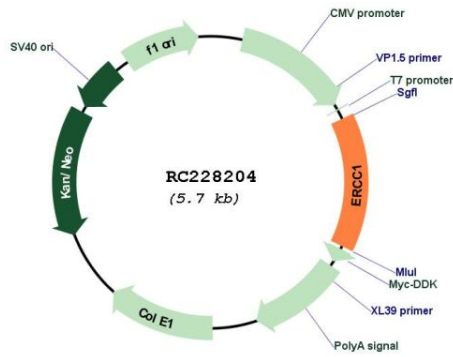
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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.

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:	<ol style="list-style-type: none">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:	<u>NM_001166049.2</u>
RefSeq ORF:	822 bp
Locus ID:	2067
UniProt ID:	<u>P07992</u>
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome
Protein Pathways:	Nucleotide excision repair
MW:	29.8 kDa
Gene Summary:	<p>The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5' incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein gene on the opposite strand. [provided by RefSeq, Oct 2009]</p>

Product images:



Circular map for RC228204