

Product datasheet for RG228204

ERCC1 (NM_001166049) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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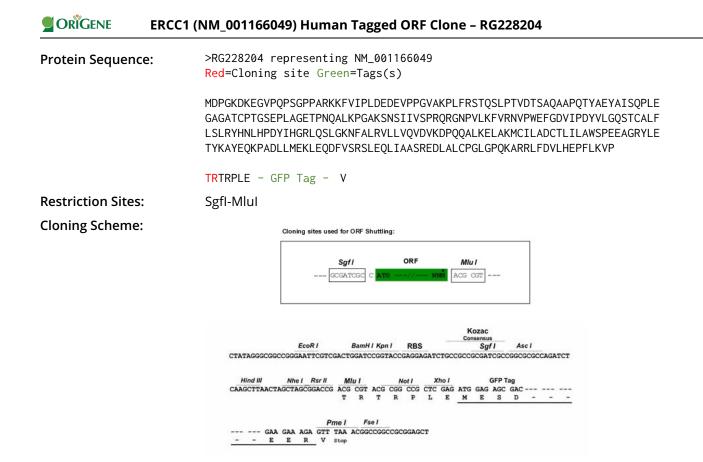
Product Type:	Expression Plasmids
Product Name:	ERCC1 (NM_001166049) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ERCC1
Synonyms:	COFS4; RAD10; UV20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG228204 representing NM_001166049 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGGACCCTGGGAAGGACAAAGAGGGGGTGCCCCAGCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGA TACCCCTCGACGAGGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCC CACTGTGGACACCTCGGCCCAGGCGGCCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAA GGGGCTGGGGCCACGTGCCCCACAGGGTCAGAGCCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAAC CCGGGGCAAAATCCAACAGCATCATTGTGAGCCCTCGGCAGAGAGGGGCAATCCCGTACTGAAGTTCGTGCG CAATGTGCCCTGGGAATTTGGCGACGTAATTCCCGACTATGTGCGGGCCAGAGCACCTGTGCCCTGTTC CTCAGCCTCCGCTACCACAACCTGCACCCAGACTACATCCATGGGCGGCTGCAGAGCACCTGTGGCCTGTT CTCAGCCTCGGGACTTGTCCAGGTGGATGTGAAAGATCCCCAGCAGGCCCTCAAGGAGCTGGCTAA GATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGAGGAAGCTGGGCAGACCTGCAGA ACCTACAAGGCCTATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGAGCAGGACTTCGTCCC GGTCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCGTGGGCCCTCAGAA AGCCCGGAGGCTGTTTGATGTCCTGCACGAGCCCTTCTTGAAAGTACCC

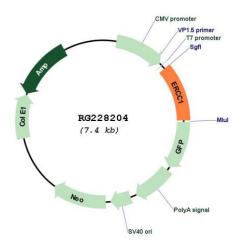
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Plasmid Map:



ACCN: ORF Size: NM_001166049 819 bp

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Service ERCC1 (NM_001166049) Human Tagged ORF Clone – RG228204	
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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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 Metho	 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 Size:	3328 bp
RefSeq ORF:	822 bp
Locus ID:	2067
UniProt ID:	<u>P07992</u>
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome
Protein Pathways:	Nucleotide excision repair

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Gene Summary: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]

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