

Product datasheet for **RG214392**

ERCC8 (NM_000082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERCC8 (NM_000082) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ERCC8
Synonyms:	CKN1; CSA; UVSS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214392 representing NM_000082 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGGTTTTGTCCGCACGCCAAACGGGTTGGAGGACCCTCTTCGCCTTCGGAGAGCAGAGTCAA
CACGGAGAGTTTTGGGACTGGAATTAATAAAGACAGAGATGTTGAAAGAATCCACGGCGGTGGAATTA
CACCCCTTGACATTGAACCTGTTGAAGGGAGATACATGTTATCAGGTGGTTCAGATGGTGTGATTGACTT
TATGACCTTGAGAACTCCAGCAGACAATCTTATTACACATGTAAGCAGTGTGTTCCATTGGCAGAGATC
ATCCTGATGTTACAGATACAGTGTGGAGACTGTACAGTGGTATCCTCATGACACTGGCATGTTACATC
AAGCTCATTTGATAAACTCTGAAAGTATGGGATACAAATACATTACAACTGCAGATGATTTAATTTT
GAGGAAACAGTTTATAGTCATCATATGTCTCCAGTCTCCACCAAGCACTGTTTGGTAGCAGTTGGTACTA
GAGGACCCAAAGTACAACCTTTGTGACTTGAAGTCTGGATCCTGTTCTCACATTCTACAGGGTACAGACA
AGAAATATTAGCAGTTTCTGGTCTCCACGTTATGACTATATCTTGGCAACAGCAAGTGCTGACAGTAGA
GTAAATTTATGGGATGTGAGAAGAGCATCAGGATGTTTGGTACTCTTGATCAACATAATGGGAAAAAGT
CACAAGCTGTTGAATCAGCAAACACTGCTCATAATGGGAAAGTAAATGGCTTATGTTTTACAAGTGATGG
ACTTCACCTCCTCACTGTTGGTACAGATAATCGAATGAGGCTCTGGAATAGTTCCAATGGAGAAAACACA
CTTGGAACATGGAAGTTTGTAAACAGTAAAAAGGATTGAAATTCAGTCTCCTGTGGCTGCA
GTTGAGAAATTTGTTTTGTACCATATGGTAGCACCATTGCTGTTTATACAGTTTACTCAGGAGAACAGAT
AACTATGCTTAAGGGACATTATAAACTGTTGACTGCTGTGATTTTCAGTCAAATTTCCAGGAACTTTAT
AGTGGTAGCAGAGACTGCAACATTCTGGCTTGGGTTCCATCCTTATATGAACCAGTTCCTGATGATGATG
AGACTACAACAAATCACAATTAATCCGGCCTTTGAAGATGCCTGGAGCAGCAGTATGAAGAAGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214392 representing NM_000082
 Red=Cloning site Green=Tags(s)

MLGFLSARQTGLEDLPLRLRAESTRRVLGLELNKDRDVERIHGGGINTLDIEPVEGRYMLSGGSDGVIVL
 YDLENSRQSYTCKAVCSIGRDHPDVHRYSVETVQWYPHDTGMFTSSSFDKTLKVWDTNLTQADVFNF
 EETVYSHHMSPVSTKHCLVAVGTRGPKVQLCDLKSFGSCSHILQGHRQEILAVSWSPPRYDYILATASADSR
 VKLWDVRRASGCLITLDQHNGKKSQAVESANTAHNGKVNLGCTSDGLHLLTVGTDNRMLWNSSNGENT
 LVNYGKVCNNSKKGLKFTVSCGCSSEFVFPYGSTIAVYTVYSGEQITMLKGHYKTVDCCVFQSNFQELY
 SGRDCNILAWVPSLYEVPVDDDETTTKSQLNPAFEDAWSSSDEEG

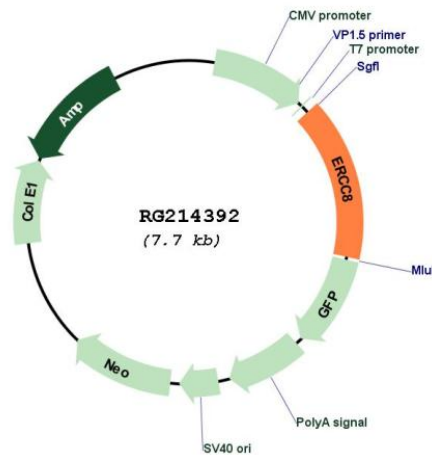
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_000082

ORF Size:	1188 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:	<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:	NM_000082.4
RefSeq Size:	2031 bp
RefSeq ORF:	1191 bp
Locus ID:	1161
UniProt ID:	Q13216
Cytogenetics:	5q12.1
Domains:	WD40
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Nucleotide excision repair, Ubiquitin mediated proteolysis
Gene Summary:	This gene encodes a WD repeat protein, which interacts with Cockayne syndrome type B (CSB) protein and with p44 protein, a subunit of the RNA polymerase II transcription factor IIH. Mutations in this gene have been identified in patients with hereditary disease Cockayne syndrome (CS). CS cells are abnormally sensitive to ultraviolet radiation and are defective in the repair of transcriptionally active genes. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2014]