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Product datasheet for RC236876

ERCC8 (NM_001290285) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERCC8 (NM_001290285) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERCC8
Synonyms:	CKN1; CSA; UVSS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC236876 representing NM_001290285
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGATACAAATACATTACAATTGGTACTAGAGGACCCAAAGTACAACTTTGTGACTTGAAGTCTGGAT
CCTGTTCTCACATTCTACAGGGTCACAGACAAGAAATATTAGCAGTTTCCTGGTCTCCACGTTATGACTA
TATCTTGGCAACAGCAAGTGCTGACAGTAGAGTAAAATTATGGGATGTGAGAAGAGCATCAGGATGTTTG
ATTACTCTTGATCAACATAATGGGAAAAAGTCACAAGCTGTTGAATCAGCAAACACTGCTCATAATGGGA
AAGTTAATGGCTTATGTTTTACAAGTGATGGACTTCACCTCCTCACTGTTGGTACAGATAATCGAATGAG
GCTCTGGAATAGTTCCAATGGAGAAAACACACTTGTGAACTATGGAAAAGTTTGTAATAACAGTAAAAAA
GGATTGAAATTCACTGTCTCCTGTGGCTGCAGTTCAGAATTTGTTTTTGTACCATATGGTAGCACCATTG
CTGTTTATACAGTTTACTCAGGAGAACAGATAACTATGCTTAAGGGACATTATAAAACTGTTGACTGCTG
TGTATTTCAGTCAAATTTCCAGGAACTTTATAGTGGTAGCAGAGACTGCAACATTCTGGCTTGGGTTCCA
TCCTTATATGAACCAGTTCCTGATGATGATGAGACTACAACAAAATCACAATTAAATCCGGCCTTTGAAG
ATGCCTGGAGCAGCAGTGATGAAGAAGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

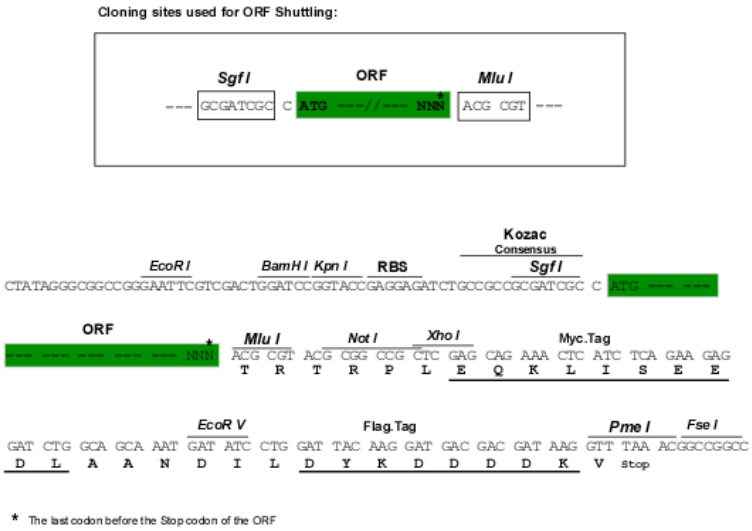
>RC236876 representing NM_001290285
Red=Cloning site Green=Tags(s)

MGYKYITIGTRGPKVQLCDLKSGSCSHILQGHRQEILAVSWSPRYDYILATASADSRVKLWDVRRASGCL
ITLDQHNGKKSQAVESANTAHNGKVNGLCFTSDGLHLLTVGTDNRMRLWNSSNGENTLVNYGKVCNNSKK
GLKFTVSCGCSSEFVFVPYGSTIAVYTVYSGEQITMLKGHYKTVDCCVFQSNFQELYSGSRDCNILAWVP
SLYEPVPDDDETTTKSQLNPAFEDAWSSSDEEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290285

ORF Size: 729 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).

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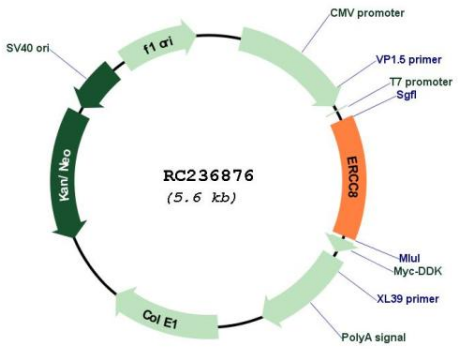
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001290285.1, NP_001277214.1
RefSeq Size:	1962 bp
RefSeq ORF:	732 bp
Locus ID:	1161
Cytogenetics:	5q12.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Nucleotide excision repair, Ubiquitin mediated proteolysis
MW:	27.3 kDa
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]

Product images:



Circular map for RC236876

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