

Product datasheet for RC203124

ERCC8 (NM_001007234) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ERCC8 (NM_001007234) 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: >RC203124 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGGGGTTTTGTCCGACGCCAAACGGGTTGGAGGACCCTCTTCGCCTTCGGAGAGCAGAGTCAA
 CACGGAGAGTTTTGGGACTGGAATTAATAAAGACAGAGATGTTGAAAGAATCCACGGCGGTGGAATTA
 CACCCTTGACATTGAACCTGTTGAAGGGAGATACATGTTATCAGGTGGTTCAGATGGTGTGATTGTACTT
 TATGACCTTGAGAACTCCAGCAGACAATCTTATTACACATGTAAGCAGTGTGTTCCATTGGCAGAGATC
 ATCCTGATGTTACAGATACAGTGTGGAGACTGTACAGTGGTATCCTCATGACACTGGCATGTTACATC
 AAGCTCATTTGATAAACTCTGAAAGTATGGGATACAAATACATTACAACTGCAGATGATTTAATTTT
 GAGGAAACAGTTTACAGTCATCATATGTCTCCAGTCTCCACCAAGCACTGTTGGTAGCAGTTGGTACTA
 GAGGACCCAAAGTACAACCTTTGTGACTTGAAGTCTGGATCCTGTTCTCACATTCTACAGGTATTTTTAT
 TTTATTTCAAACGGCACTACTTTGAGTAAACGATTCAATAAAAAAGAAACGTTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203124 protein sequence
 Red=Cloning site Green=Tags(s)

MLGFLSARQTGLEPLRLRRAESTRRVLGLELNKDRDVERIHGGGINTLDIEPVEGRYMLSGGSDGVIVL
 YDLENSRQSYTCKAVCSIGRDHPDVHRYSVETVQWYPHDTGMFTSSSFDKTLKVDNTLQTADVFNF
 EETVYSHHMSPVSTKHCLVAVGTRGPKVQLCDLKSIGSCSHILQGIFILFQTATTLKRFNKKKRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

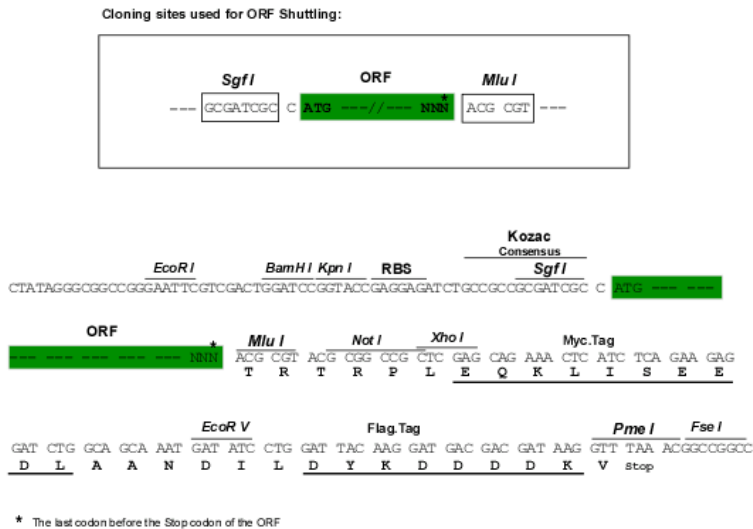


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Chromatograms: https://cdn.origene.com/chromatograms/mk6435_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001007234

ORF Size: 615 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_001007234.3](#)

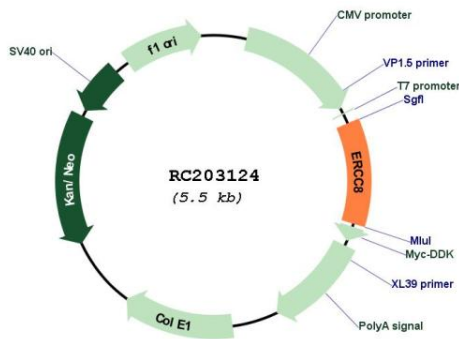
RefSeq Size: 908 bp

RefSeq ORF: 618 bp

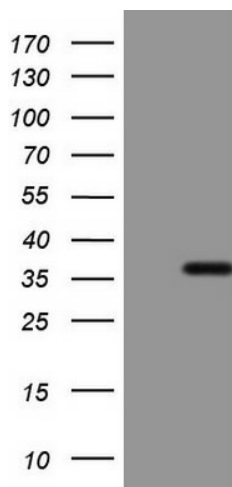
Locus ID: 1161

UniProt ID: [Q13216](#)
Cytogenetics: 5q12.1
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: Nucleotide excision repair, Ubiquitin mediated proteolysis
MW: 23.2 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]

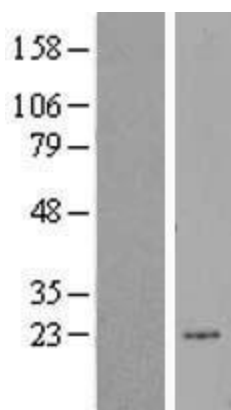
Product images:



Circular map for RC203124



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ERCC8 (Cat# RC203124, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ERCC8 (Cat# [TA808524])(1:2000). Positive lysates [LY423459] (100ug) and [LC423459] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY423459]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203124 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).