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Product datasheet for MR206229

Ercc8 (NM_028042) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ercc8 (NM_028042) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ercc8
Synonyms:	2410022P04Rik; 2810431L23Rik; 4631412O06Rik; B130065P18Rik; Ckn1; Csa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206229 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGAGCTTTTTGTCCGCTCGACAGTCGGGTTTGGAGGACCCTCTTCGCTTGCGTAGAGCGCAGTCCA
CACGGAGGGTCCTGGGGCTGGAGTTAAACAAAGACAGGGATGTGGAAAGAATCCATGGCAGTGGGGTTAA
CACCCTCGACATTGAGCCCGTTGAAGGAAGATACATGTTGTCAGGTGGCTCCGATGGCGTGGTTGTACTC
TATGACCTTGAGAACGCCAGCAGACAGCCCCATTACACATGTAAAGCAGTGTGTTCCATTGGCAGAAGCC
ATCCCGATGTTCACAAATACAGCGTGGAGACTGTTCAGTGGTATCCTCATGACACTGGCATGTTCACATC
CAGCTCATTTGATAAAACTCTGAAAGTGTGGGATACAAACACATTGCAGGCTGCAGATGTGTTTAATTTT
GAGGAAACAGTTTACAGTCATCACATGTCCCCAGCAGCCACCAAGCACTGTCTGGTAGCAGTTGGAACAA
GAGGACCCAAGGTACAACTTTGTGACTTAAAGTCTGGATCCTGTTCTCACATTCTACAGGGTCACAGACA
GGAAATCTTGGCAGTTTCCTGGTCACCACGCCATGACTATATCTTGGCAACAGCAAGTGCTGACAGTAGA
GTAAAATTATGGGATGTGAGAAGAGCGTCAGGATGCTTGCTTACTCTTGACCAGCATAATGGGAAAAAGT
CACAAGCTGCTGAATCAGCAAACACTGCTCACAATGGGAAAGTTAACGGCTTATGTTTTACAAGTGACGG
CCTTCACCTGCTCACCATTGGCACAGACAACCGAATGCGCCTCTGGAATAGCTCCAGCGGGGACAACACC
CTGGTGAACTATGGGAAGGTGTGTAATGACAGCAGGAAAGGGCTGCAGTTCGCTGTCTCCTGTGGCTGCA
GCTCAGAGTTTGTGTTTGTTCCCCACGGCAGCACCATCGCTGTGTACGCAGTCCACTCGGGAGAGCGGCT
CGCCATGCTCAAGGGACATTACAAAAGCGTCGACTGCTGTGTGTTCCAGCCTAATTTCCAGGAACTTTAC
AGTGGAAGCAGGGACTGCAATATTCTTGCTTGGGTACCACCTTCCTATGAGCCAGTTCCTGATGATGACG
ATGAAGCTCCAGCCAAATCCCAGTTAAACCCAGCATTCGCGGACGCCTGGAGCAGCAGTGACGAGGATGG
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

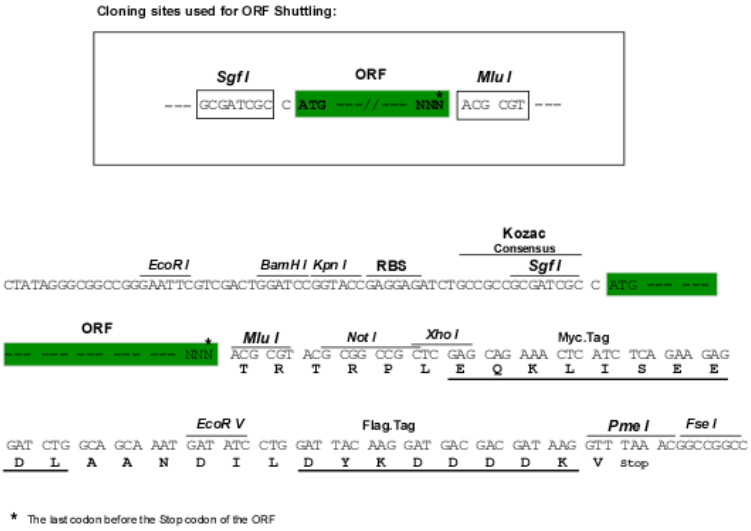
>MR206229 protein sequence
Red=Cloning site Green=Tags(s)

MLSFLSARQSGLEDPLRLRRAQSTRRVLGLELNKDRDVERIHGSGVNTLDIEPVEGRYMLSGGSDGVVVL
YDLENASRQPHYTCKAVCSIGRSHPDVHKYSVETVQWYPHDTGMFTSSSFDKTLKVWDTNTLQAADVFNF
EETVYSHHMSPAATKHCLVAVGTRGPKVQLCDLKSGSCSHILQGHRQEILAVSWSPRHDYILATASADSR
VKLWDVRRASGCLLTLDQHNGKKSQAAESANTAHNGKVNGLCFTSDGLHLLTIGTDNRMRLWNSSSGDNT
LVNYGKVCNDSRKGLQFAVSCGCSSEFVFVPHGSTIAVYAVHSGERLAMLKGHYKSVDCCVFQPNFQELY
SGSRDCNILAWVPPSYEPVPDDDDEAPAKSQLNPAFADAWSSSDEDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028042

ORF Size: 1191 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_028042.1, NM_028042.2, NM_028042.3, NP_082318.2

RefSeq Size: 2107 bp

RefSeq ORF: 1194 bp

Locus ID: 71991

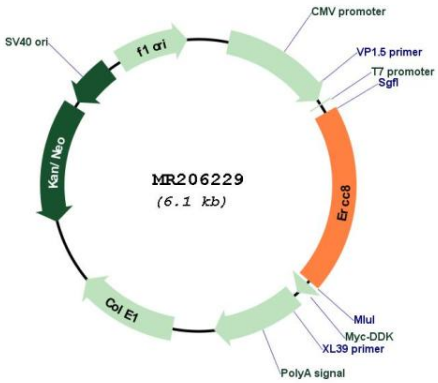
UniProt ID: Q8CFD5

Cytogenetics: 13 D2.1

MW: 43.7 kDa

Gene Summary: Involved in transcription-coupled nucleotide excision repair. It is required for the recruitment of XAB2, HMGN1 and TCEA1/TFIIS to a transcription-coupled repair complex which removes RNA polymerase II-blocking lesions from the transcribed strand of active genes. It is the substrate-recognition component of the CSA complex (DCX(ERCC8) complex) which promotes the ubiquitination and subsequent proteasomal degradation of ERCC6 in a UV-dependent manner; ERCC6 degradation is essential for the recovery of RNA synthesis after transcription-coupled repair.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206229