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Product datasheet for RC235146

ERCC6 (NM_001277059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERCC6 (NM_001277059) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERCC6
Synonyms:	ARMD5; CKN2; COFS; COFS1; CSB; CSB-PGBD3; POF11; RAD26; UVSS1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235146 representing NM_001277059 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCAAATGAGGGAATCCCCCACTCAAGTCAAACTCAGGAGCAAGACTGTTTACAGAGTCAACCTGTCA GTAATAATGAAGAAATGGCAATCAAGCAAGAAAGTGGTGGTGATGGGGAGGTGGAGGAGTACCTCTCCTT TCGTTCTGTGGGTGACGGGCTGTCCACCTCTGCTGTGGGGTGCGCATCAGCAGCTCCGAGGAGAGGGCCA GCCCTGCTGCACATCGACCGACATCAGATCCAGGCAGTAGAGCCTAGCGCCCAGGCCCTTGAGCTGCAGG GTTTGGGTGTGGACGTCTATGACCAGGACGTGCTGGAACAGGGAGTGCTTCAGCAGGTGGACAATGCCAT CCATGAGGCCAGCCGTGCCTCCCAGCTCGTTGACGTGGAGAAGGAGTATCGGTCGGTCCTGGATGACCTC ACGTCATGTACGACATCCCTAAGGCAAATCAATAAAATTATTGAACAGCTTAGCCCTCAAGCTGCCACCA GCAGAGACATCAACAGGAAACTAGATTCTGTAAAACGACAGAAGTATAATAAGGAACAACAGCTAAAAAA GATCACTGCAAAACAAAAGCATCTCCAGGCCATCCTTGGAGGAGCAGAGGTGAAAATTGAACTAGATCAC GCCAGTCTGGAGGAGGATGCAGAGCCGGGGCCATCCAGTCTTGGCAGCATGCTCATGCCTGTCCAGGAGA CTGCCTGGGAAGAGCTCATCCGCACTGGCCAGATGACACCTTTTGGTACCCAGATCCCTCAGAAACAGGA GAAAAAGCCCAGAAAAATCATGCTTAATGAAGCATCAGGCTTCGAAAAGTATTTGGCAGATCAAGCAAAA CTGTCTTTTGAAAGGAAGAAGCAAGGTTGTAATAAAAGAGCAGCTAGAAAAGCTCCAGCCCCAGTCACGC CTCCAGCCCCAGTGCAAAATAAAAACAAACCAAACAAGAAAGCCAGAGTTCTGTCCAAAAAAGAGGAGCG TTTGAAAAAGCACATCAAGAAACTCCAGAAGAGGGCTTTGCAGTTCCAGGGGAAAGTGGGATTGCCAAAG GCAAGGAGACCTTGGGAGTCAGACATGAGGCCAGAGGCAGAGGGAGACTCTGAGGGTGAAGAGTCTGAGT ATTTCCCCACAGAGGAGGAGGAAGAGGAGGAAGATGACGAGGTGGAGGGGGCAGAGGCGGACCTGTCTGG AGATGGTACTGACTATGAGCTGAAGCCTCTGCCCAAGGGCGGGAAACGGCAGAAGAAAGTGCCAGTGCAG GAGATTGATGATGACTTTTTCCCAAGTTCTGGGGAAGAAGCTGAAGCTGCTTCTGTAGGAGAAGGAGGAG GAGGAGGTCGGAAAGTGGGAAGATACCGAGATGATGGAGATGAAGATTATTATAAGCAGCGGTTAAGTCC CAAGATGCCTCGAACACTAAGTTTACATGAAATAACTGACCTTTTAGAGACAGATGACAGCATAGAAGCA AGTGCTATAGTGATACAACCACCTGAAAATGCTACAGCACCTGTTTCTGATGAGGAATCAGGAGATGAAG

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC235146 representing NM_001277059
Red=Cloning site Green=Tags(s)

MPNEGIPHSSQTQEQDCLQSQPVSNNEEMAIKQESGGDGEVEEYLSFRSVGDGLSTSAVGCASAAPRRGP
ALLHIDRHQIQAVEPSAQALELQGLGVDVYDQDVLEQGVLQQVDNAIHEASRASQLVDVEKEYRSVLDDL
TSCTTSLRQINKIIEQLSPQAATSRDINRKLDSVKRQKYNKEQQLKKITAKQKHLQAILGGAEVKIELDH
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TFTVQQPPPSRRRKMTKILCKWKKADLTVQPVAGRVTAPPNDFFTVMRTPTEILELFLDDEVIELIVKYS
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DNANLDPVDKFSKLRPLISKLNERCMKFVPNETYFSFDEFMVPYFGRHGCKQFIRGKPIRFGYKFWCGAT
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GTVRKDHIDRVPLESDVALKKKERGTFDYRIDGKGNIVCRWNDNSVVTVASSGAGIHPLCLVSRYSQKLK
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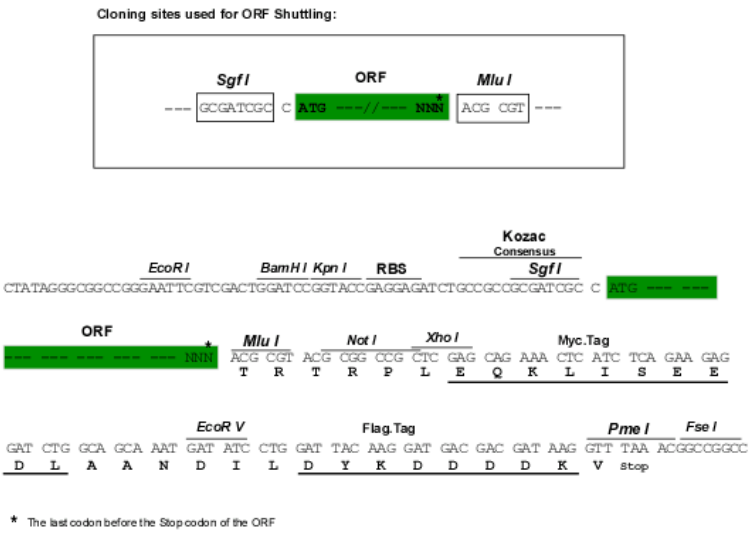
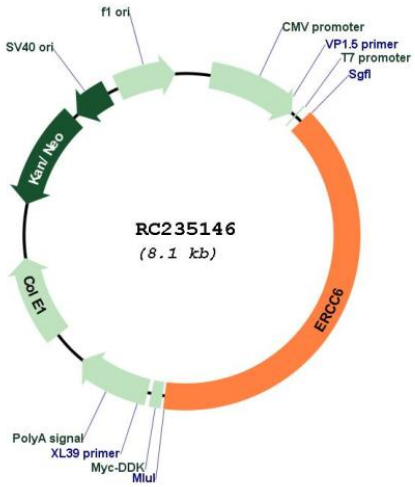
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001277059
ORF Size:	3183 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_001277059.2
RefSeq Size:	3535 bp
RefSeq ORF:	3186 bp
Locus ID:	2074
UniProt ID:	P0DP91
Cytogenetics:	10q11.23
Protein Families:	Druggable Genome
Protein Pathways:	Nucleotide excision repair
MW:	119.9 kDa
Gene Summary:	This gene encodes a DNA-binding protein that is important in transcription-coupled excision repair. The encoded protein has ATP-stimulated ATPase activity, interacts with several transcription and excision repair proteins, and may promote complex formation at DNA repair sites. Mutations in this gene are associated with Cockayne syndrome type B and cerebrooculofacioskeletal syndrome 1. Alternative splicing occurs between a splice site from exon 5 of this gene to the 3' splice site upstream of the open reading frame (ORF) of the adjacent gene, piggyback-derived-3 (GeneID:267004), which activates the alternative polyadenylation site downstream of the piggyback-derived-3 ORF. The resulting transcripts encode a fusion protein that shares sequence with the product of each individual gene. [provided by RefSeq, Mar 2016]