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Product datasheet for MR219993

Ercc4 (NM_015769) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ercc4 (NM_015769) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ercc4
Synonyms:	AI606920; Xpf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR219993 representing NM_015769
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCAGGCCTGTCGGGCGAACGGCGGAGTATGGCGCCGCTGTTGGAGTACGAGAGGCAGCAGGTGC
TGGAACTGCTCGACAGCGACGGGCTGGTGGTGTGTGCCCGCGGACTCGGCACCGACCGGCTCCTCTACCA
TTTCCTGCGGCTTCACTGCCACCCGGCCTGCCTGGTGCTGGTGCTCAACACGCAGCCGGCCGAGGAGGAA
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CATCCTGGGGCACTCGGGAAATGCCAAGCAGCTGCACGACTTCCTGCACACTGCCTATGCAGACTTGGTG
TCCAAAGGCAGAGTGAGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

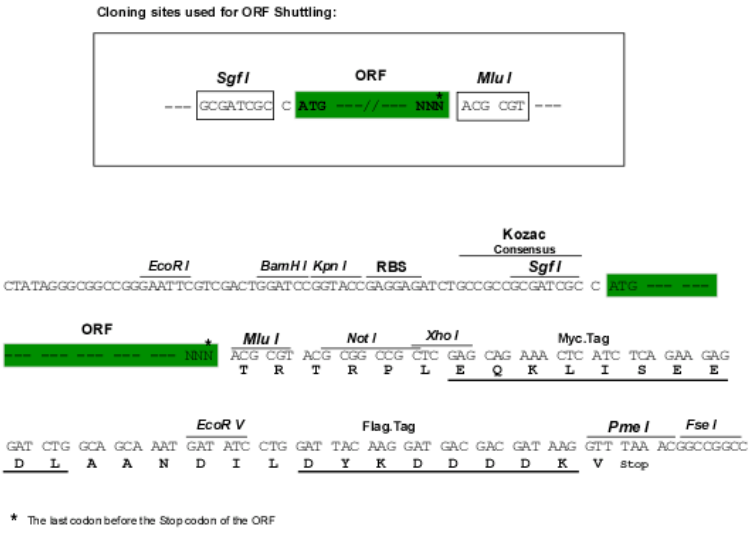
>MR219993 representing NM_015769
Red=Cloning site Green=Tags(s)

MEPGLSGERRSMAPLLEYERQQVLELLDSDGLVVCARGLGTDRLLYHFLRLHCHPACLVLVLNTQPAEEE
YFINQLKIEGVEHLPRRVTNEIASNSRYEVYTQGGIIFATSRILVVDFLTGRIPSDLITGILVYRAHRII
ESCQEAFILRLFRQKNKRGFIKAFTDNAVAFDTGFCHVERVMRNLFVRKLYLWPRFHVAVNSFLEQHKPE
VVEIHVSMTPAMLAIQTAILDILNACLKELKCHNPSLEVEDLSLENALGKPFDKTIRHYLDPLWHQLGAK
TKSLVQDLKILRTLLQYLSQYDCVTFLNLLESLRATEKVFGQNSGWLFLDASTSMFVNARARVYRVPDVK
LNKKAKTSEKTSSPEVQETKKELVLESNPKWEALTDVLKEIEAENKESEALGGPGRVLICASDDRTCCQL
RDYLSAGAETFLLRLYRKTFEKDGKAEEVWVNVRKGDGPKRTTKSDKRPKAAPNKERASAKRGAPLKRKK
QELTLTQVLGSAEEPPEDKALEEDLCRQTSSSPEGCGVEIKRESFDLNVSSDAAYGILKEPLTIIHPLLG
CSDPYALTRVLHEVEPRYVVLYDAELTFVRQLEIYRASRPGKPLRVYFLIYGGSTEEQRYLTALRKEKEA
FEKLIREKASMVVPEEREGRDETNLDLARGSAALDAPTDTRKAGGQEQNGTQSSIVVDMREFRSELPSLI
HRRGIDIEPVTLEVGDYILTPELCVERKSVSDLIGSLHSGRLYSQCLAMSRYYRRPVLLIEFDPSKPFSL
APRGAFFQEMSSSDVSSKLTLLTLHFPRLRLLWCPSPHATAELFEELKQNKPQPDAATAMAITADSETLP
ESDRYNPGPQDFVLKMPGVNAKNCRSLMNQVKNIAELATLSLERLTTILGHSGNAKQLHDFLHTAYADLV
SKGRVRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015769

ORF Size: 2751 bp

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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_015769.2, NP_056584.2
RefSeq Size:	6703 bp
RefSeq ORF:	2754 bp
Locus ID:	50505
UniProt ID:	Q9QZD4
Cytogenetics:	16 A1
MW:	104.1 kDa
Gene Summary:	Catalytic component of a structure-specific DNA repair endonuclease responsible for the 5-prime incision during DNA repair. Involved in homologous recombination that assists in removing interstrand cross-link (By similarity).[UniProtKB/Swiss-Prot Function]

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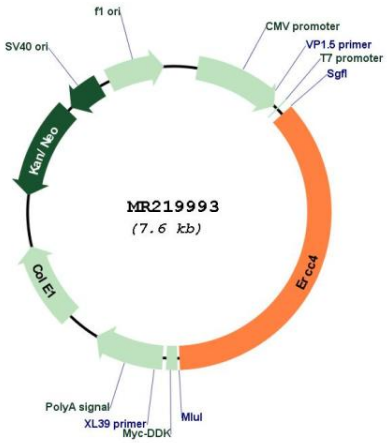
Product images:



Circular map for MR219993

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