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Product datasheet for MR208992

Fastkd3 (BC042506) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fastkd3 (BC042506) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fastkd3
Synonyms:	2310010B21Rik; AW048587
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR208992 representing BC042506
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGCTGAGCTGCTGCTGCTGCTGATAGTCGCCTTCGCCAATCCCAGCTGCCAGGTGCTGTCATCAC
TGCGCATGGCTGCAATCCTGGACGACCAGACCGTGTGTGGCCGTGGTGAGCGTCTGGCCCTGGCCCTGGC
CCGAGAGCAGATCAATGGGATCATCGAGGTCCCAGCCAAGGCCAGAGTGGAAGTAGACATCTTTGAGCTG
CAGCGGGACAGCCAGTACGAGACCACGGACACCATGTGTCAGATCCTGCCCAAGGGGGTTGTATCTGTCT
TGGGACCCTCCTCCAGCCCAGCTTCTGCCTCCACCGTGAGCCATATCTGTGGGGAGAAGGAGATTCCCCA
CATCAAGGTGGGTCCTGAGGAGACGCCCCGCCTTCAGTACCTTCGCTTCGCATCTGTCAGCCTGTACCCC
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GAATGACCTCAGCGTTTTACAAGTACATCCTCACCACCATGGACTTTCCCATCCTGCATCTGGATGGTAT
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CACTACGCATCCTGGAGAAGTCCCGCCAGGGCCACCGTGAGATAGGGGTGTGGTACTCTAACCGGACCCT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR208992 representing BC042506
Red=Cloning site Green=Tags(s)

MPAELLLLLIVAFANPSCQVLSSLRMAAILDDQTVCGRGERLALALAREQINGIIEVPAKARVEVDIFEL
QRDSQYETTDTMCQILPKGVVSVLGPSSSPASASTVSHICGEKEIPHIKVGPEETPRLQYLRFASVSLYP
SNEDVSLAVSRILKSFNYPSASLICAKAECLLRLEELVRGFLISKETLSVRMLDDSRDPTPLLKEIRDDK
VSTIIIDANASISHLVLRKASELGMTSAFYKYILTTMDFPILHLDGIVEDSSNILGFSMFNTSHPFYPEF
VRSLNMSWRENCEASTYPGPALSAALMFDAVHVVVSAVRELNRSQEIGVKPLACTSANIWPHGTSLMNYL
RMVEYDGLTGRVEFNSKGQRTNYTLRILEKSRQGHREIGVWYSNRTLAMNATTLDINLSQTLANKTLVVT
TILENPYVMRRPNFQALSGNERFEGFCVDMLRELAELLRFRYRLRLVEDGLYGAPEPNGSWTGMVGELIN
RKADLAVAAFTITAEREKVIDFSKPFMTLGISILYRVHMGRKPGYFSFLDPFSPAVWLFMLLAYLAVSCV
LFLAARLSPYEWYNPHPCLRARPHILENQYTLGNSLWFPVGGFMQQGSEIMPRALSTRCVSGVWWAFTLI
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FVKSTEEGIARVLNSRYAFLLESTMNEYHRRLNCNLTQIGGLLDTKGYGIGMPLGSPFRDEITLAILQLQ
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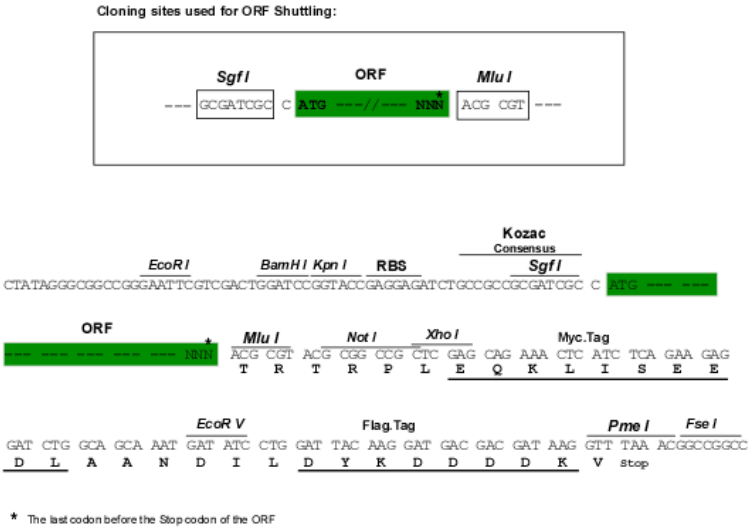
VCQEMLQELRHAVSCRKTSRSRRRRRPGGPSRALLSLRAVREMRLSNGKLYSAGAGGDAGAHGGPQRLLD
DPGPPGGPRPQAPTPCTHVRVCQECRRIQALRASGAGAPPRGLGTPAEATSPPRPRPGPTGPRELTEHE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

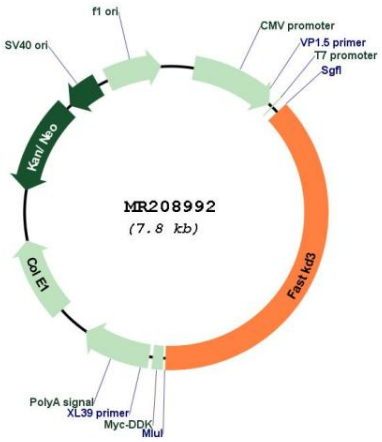


ACCN: BC042506

ORF Size: 2937 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:	BC042506, AAH42506
RefSeq Size:	2522 bp
RefSeq ORF:	1715 bp
Locus ID:	69577
Cytogenetics:	13 B3
MW:	92.4 kDa
Gene Summary:	Required for normal mitochondrial respiration. Increases steady-state levels and half-lives of a subset of mature mitochondrial mRNAs MT-ND2, MT-ND3, MT-CYTB, MT-CO2, and MT-ATP8/6. Promotes MT-CO1 mRNA translation and increases mitochondrial complex IV assembly and activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208992