

Product datasheet for **MC217862**

Fastkd3 (BC042506) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >BC042506
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTTTCATCACCTGCGGAGGGCCTTTTGTGCATAAGTCCATTCTTTGGATACCTGGAGCTGTGGTTG
 CTCTGAAAATTACCCCTGCCAGTCATGCCCAAAAGGCGGTACAGATCGCCTGAGTGTGTCTTCTGCTC
 CCTACAACCTGAGCTGTTCAAGGTCAGATTCCATCACGCATACTGTAAAACTTCCACTCAGAAAAGGGA
 AATGACTTTTCATCCCGTGGGCGAGCCATGGTCTCCAGGCGCAGGAATGGAACAGCCAGGACAGAGTC
 TTCAAAACGAGGATGAAGAGATGCTTTTCAGGAGACTAAGCGTCTTCACTTCTTTGAGGAAGTGTGAG
 TTTTCATAAGTGCCTGGACACCCTGCCTGTCCCTCTGGCAATGGCAGCTCTACTCAGGATCTGTGAGATA
 GGGAGGAGAGATGGTGAAGAGCTGCCAGAAGGAGTGTGGAGAACCCTGCCTTCCAGGCTCTTTGCC
 TCCGGTGTGAGCGAGACCCCTCACACCTGACCACTGCTGGTTTGGTGACAGCTTTGCAATCTCTGCTTAC
 GTTGTTCCTGCAGATCCTCAAAGTAGCCTGATGCTGAGCCTGGTGGCAGAATGCCAACGTCGTCTCCAA
 AGAGGCAACCTCGAAGTCCACCATCTTTGTGTCCTTGGGGAAAGTCTGGCCATGCTTCAAGGTGCGAGTT
 GTGAGACCCTGAAGCTGGTTGTCCGTCAACTTCAAAGTAAAAGTGTGGAACATTTGCTCCAGAGGAGAT
 CGCGTCCGTTTATAGGATTCTGCAGGCGTGTCTGAAGAAGTAGACAAACACCAGACGTTCTTAAACACA
 TTAACAACCTTCTCCATTTCACTAGTTCCTACCTGAGCCCTAAATCCATTAGCCATGCTCTACCGCCT
 TAGTGGCCCTGGACCAGACTCACGCACTCCCACTGCTTATAAAGCTGGGCAAGTACGTTGTGAGATACAT
 CCCCCGTTTTACCAACGAAGAGCTCAGGAAGTCTTGGAGGCGTTTGTCTATTTTCGGACACAGTGACAGG
 TTCTTTCACAGAGGCCTTAGAGCAACATGTGTCCGCCCTGTGCTTCTCCCTGGACCCCGCTGTGGCCAGCT
 CCGTGATGGGGTACTGCAGCAGGAAACGGATTCTCTCAAGCCCATCTTCGACGTAGTCTCAGAGATCGT
 TGTTTGCCAGTGGGACAGACTTTACCTAGTCAGATTGCCGAGCTAATTGAGCCATTTGGAAAGCTCAAT
 TACGTGCCACCAACGCCCTGCCTGTTAGGAAGGTAGAAAATGTGCTCTGTGCCCGTTTACATCACT
 TCCACCAAGATGCTACTGAGACTCCTTCATTATGTGCGCTGATTGAGCGACATCCCGTCAACTTCAT
 GTCAAACTATTAGCCCTTTTCTTTCAGCGGCTGCAAGGTAAAGAGTCTTATTTGGACAGATTGAGC
 CTGGCACAGCTGACCAACTTTTCTAACCTCCGTCTAGAGTGTCCGTTCTATAAGGGCCCCAACTTC
 TTCCTAAATCAAGTGAAGTATTTCTCACTCCATGCTGCTCTTAGAGACGCCCATGGATCTCCATCT
 GTATAAGTCTGTGGTATTGGACTGATTGATCTTTTAGGATCAAGACTGTATTTTGCTTCAAAGGTGTTG
 ACGCCCTATTACTACACTATAGCCTCGGCCCTCTGA

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC042506

Insert Size: 1716 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>BC042506</u> , <u>AAH42506</u>
RefSeq Size:	2522 bp
RefSeq ORF:	1715 bp
Locus ID:	69577
Cytogenetics:	13 B3
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]