

## Product datasheet for **MC220181**

### Fastkd3 (NM\_027123) Mouse Untagged Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                      |
| Product Name:      | Fastkd3 (NM_027123) Mouse Untagged Clone |
| Tag:               | Tag Free                                 |
| Symbol:            | Fastkd3                                  |
| Synonyms:          | 2310010B21Rik; AW048587                  |
| Vector:            | pCMV6-Entry (PS100001)                   |
| E. coli Selection: | Kanamycin (25 ug/mL)                     |
| Cell Selection:    | Neomycin                                 |



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**Fully Sequenced ORF:** >MC220181 representing NM\_027123  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGTTTCATCACCTGCGGAGGGCCTTTTGTACATAAGTCCATTCTTTGGATACCTGGAGCTGTGGTTG  
 CTCTGAAAATTCACCCTGCCAGTCATGCCCAAAGGCAGTCACAGATCGCCTGAGTGTGTCTTCTGCTC  
 CCTACAACCTGAGCTGTTCCAGGGTCAGATTCCATCACGCATACTGTAAAACTTCCACTCAGAAAAGGGA  
 AATGACTTTTCATCCCGTGGGCGAGCCATGGTCCTCCAGGCGCAGGAATGGAACCCAGCCAGGACAGAGTC  
 TTCAAACGAGGATGAAGAGATGCTTTTCAGGAGACTAAGCTACTTCACTTCTTTGAGGAAGTGTGAG  
 TTTTATAAGTGCCTGGACACCCTGCCTGTCCCTCTGGCAATGGCAGCTCTACTCAGGATCTGTGAGATA  
 GGGAGGAGGGATGGTGAAGGCTGCCAGAAGGAGTGTGGAGAACCCTGCCTCCAGGCTCTTTGCC  
 TCCGGTGTGAGCGAGACCCCTCACACCTGACCAATGCTGGTTGGTGACAGCTTTGCAATCTCTGCTTAC  
 GTTGTTCCTGCAGATCCTCAAAGTAGCCTGATGTGAGCCTGGTGGCAGAAATGCCAACGTCGTCTCCAA  
 AGAGGCAACCTCGAAGTCCACCATCTTTGTGTCCTTGGGAAAAGTCTGGCCATGCTTCAAGTGGCGAGTT  
 GTGAGACCCTGAAGCTGGTTGTCCGTCAACTTCAAAGTAAAAGTGTGAAACATTTGCTCCAGAGGAGAT  
 CACGTCGGTTTATAGGATTCTGCAGGTGTGTCCTGAAGAAGTAGACAAACACCAGATGTTCTTAAACACA  
 TTAACAACCTTCTCCATTTCAAGTGTCCCTACCTGAGCCCTAAATCCATTAGCCATGTCCTCACCGCCT  
 TAGTGGCCCTGGACCAGACTCACGCACTCCCACTGCTTATAAAGCTGGCAAGTACGTTGTGAGATACAT  
 CCCCCGTTTTACCAACGAAGAGCTCAGGAAGTCTTGGAGGCGTTTGTCTATTTCCGACACAGTGACAGG  
 TTCTTACAGAGGCTTAGAGCAACATGTGCCGCCCTGTCTTCTCCCTGGACCCCGCTGTGGCCAGCT  
 CCGTGATGGGGTACTGCAGCAGGAAACGGATTCTCCAAGCCCATCTTCGACGTAGTCTCAGAGATCGT  
 TGTTTGGCAGTGGGACAGACTTTACCTAGTCAGATTGCCGAGCTAATTGAGCCATTTGGAAAGCTCAAT  
 TACGTGCCACCAACGCCCTGCCTGTTAGGAAGGTAGAAAATGTGCTCTGTGCCCGTTTACATCACT  
 TCCCACCAAGATGCTACTGAGGCTCCTTCATTATGTGCGCTGATTGAGCGACATCCCGTCAACTTCAT  
 GTCAAACTATTAGCCCTTTTCTTCCAGCGGCTGCAAGGTAAGAGTCATATTTGGACAGATTGAGC  
 CTGGCACAGTGACCCAACTTTTCTAACCTCCGTCCTAGAGTGTCCGTTCTATAAGGGCCCAAACTTC  
 TTCCTAAATCAAGTGAAGTCACTTCTCACTCCATGCTGCTCCTTAGAGACGCCCTGGATCTCCATCT  
 GTATAAGTCTGTGGTATTGGACTGATTGATCTTTTAGGATCAAGACTGATTTTGTCTCAAAGGTGTTG  
 ACGCCCTATTACTACACTATAGATGTTGAAGTAAATTAGATGAAGATGGATTTGATTGCCGTGTACAG  
 TGATGAGGATATCCACAAAAGGTTGGCGCTGTGATTGATGGGCCACAGCGATTTTGTGGACAGTAA  
 ACATTAAGTGGAAAAGAGGCTACTAAGCAGAGACACCTGCGGTTACTTGGTTACCAGGTTGTTAGCTT  
 CCCTATCATGAGCTGGAGCTGCTTACATCAAGACTTGAGTTGGTGGACTATTTACAAAGGAAGCTGTTTT  
 CTCAAAGCTCCGCTGTCCACTGG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_027123
- Insert Size:** 1986 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.

**RefSeq:** [NM\\_027123.4](#), [NP\\_081399.3](#)

**RefSeq Size:** 2362 bp

**RefSeq ORF:** 1986 bp

**Locus ID:** 69577

**UniProt ID:** [Q8BSN9](#)

**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]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.