

Product datasheet for **RC227338**

FASTKD2 (NM_001136193) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	FASTKD2
Synonyms:	COXPD44; KIAA0971
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >RC227338 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTTGACAACTTTGAAGCCATTTGGAAGTGTTCAGTGGAGAGCAAAATGAATAACAAAGCGGGCTCCT
 TTTTCTGGAACCTTAGACAATTACGTACATTAGTTTCAACAAGCAGAACTATGAGGCTATGTTGTTGGG
 ACTTTGCAAAACAAAAATAGTTCATTCAAACCTGGAACATTTTAAATAAATTTTCAATACAGAATGCAATCA
 ACTGATATCATTAGATATCTCTTTAGGATGCATTATTTTTAAATCAGATGTTGGCTTTCAAACAAAGG
 GCATAAGCACTCTAACAGCCCTTAGAATTGAAAGACTACTTTATGCTAAAAGACTGTTTTTGACTCAAA
 GCAGTCTCTTGTCCTGTTGATAAATCTGATGATGAATTGAAGAAAGTAAACCTTAATCATGAAGTCTCC
 AATGAAGATGTTCTTACCAAGGAAACAAACCAACCGTATCAGCAGTAGAAAAGTGTCTGAGGAATGTA
 ATTCCTGAGTGATGTGTAGATGCATTTTCAAAGCGCCACATTTCTAGTAGCAACTATTTACAGC
 AATGTGGACAATTGCCAAAGACTGTCTGATGACCAGAAGCGCTTTGAAAACGACTGATGTTTAGCCAC
 CCTGCAATTTAATCAGCTCTGTGAACATATGATGAGAGAAGCCAAGATCATGCAGTATAAGTACCTACTGT
 TCAGTCTTACGCCATAGTGAAGCTTGAATCCCTCAGAACACTATTTTGGTGACAGCTTTGCTGAGGGT
 GACCCAGGAACGTATCAATGAGTGATGAGATATGCCTTTTCACTTTTGTCACTGTTTATAGAGGCAATG
 GAACCATGCAAGAATGTTATGTTCTACGAACGGGATTCAGAATACTAGTTGATCAGCAAGTTTGGAAAA
 TAGAAGATGTCTTACATTACAAGTTGTGATGAAGTGTATTGAAAAGATGCACCGATTGCTCTTAAGAG
 GAAACTGGAGATGAAAGCCTTGAGGGAATTAGACAGATTTTCTGTTTTGAATAGCCAACACATGTTTGAA
 GTACTAGTGCCATGAATCACCAGTCTCTTATACTCCTGGATGAATGCAGTAAGGTGGTCTAGATAATA
 TCCATGGGTGTCCTTTAAGAATAATGATCAACATATTGCAGTCTGCAAGACCTCCAGTACCATAATTT
 GGATCTCTTCAAGGACTTGACAGATTATGTGGCTGCAACTTTTCGACATCTGGAAGTTTCAAGAAAGTTCTT
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 TCATGTCTACAAATGCCAGAACAAAGAACAGTTCGTGGAAGTTATGGCTAGTGCTCTGACTGGTTATCTT
 CACACTATTTCTTCTGAAAACCTTATTGGATGCAGTATATTCATTTTGTCTGATGAATTACTTTCCCTGG
 CTCCTTTTAAATCAGCTTCTGAAAAAGACATCATCAGTGAGCTGCTGACATCAGATGACATGAAGAATGC
 TTACAAGCTGCATACTTTGGTACTTGTCTAAAACCTTATGATGATGCTATCTGAGGGACATAGCCTTG
 TCACTCCACAGCTGCCGCGGAGCTGCCATCGTCACATACAAATGCAAGGTGGCAGAGGTGCTGAGCA
 GCCTTCTGGGAGGTGAAGGACACTTCTCAAAGGATGTGCACTTGCCACACAATTATCATATTGATTTTGA
 AATCAGAATGGACACTAACAGGAATCAAGTGCTACCACTTTCTGATGTGGATACAACCTTCTGCTACAGAT
 ATTCAAAGAGTAGCTGTGCTATGTGTTTCCAGATCTGCTTATTGTTTGGGTTCAAGCCACCCAGAGGAT
 TCCTTGCTATGAAAATGCGGCATTTGAATGCAATGGGTTTTTATGTGATCTTGGTCAATAACTGGGAGAT
 GGACAAACTAGAGATGGAAGATGCAGTCACATTTTGAAGACTAAAATCTATTACAGTAGAAGCTCTTCTCT
 GTTGCTGCTGTAATGTGCAAAGCACACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227338 protein sequence
 Red=Cloning site Green=Tags(s)

MLTTLKPFGSVSVESKMNNKAGSFFWNLRQFSTLVSTSRMTMLCCLGLCKPKIVHSNWNILNMFHNRMQS
 TDIIIRYLFQDAFIFKSDVGFQTKGISTLTALRIERLLYAKRLFFDSKQSLVPVDKSDDELKKVNLNHEVS
 NEDVLTKETKPNRISSRKLSEECNSLSDVDAFSKAPTFPSSNYFTAMWTIAKRLSDDQKRFKRLMFSH
 PAFNQLCEHMMREAKIMQYKYLFLSLHAIVKLGIPQNTILVQTLRLVTQERINECDEICLSVLSTVLEAM
 EPCKNVHLRTGFRILVDQQVWKIEDVFTLQVVMKCIGKDAPIALKRKLEMKALRELDRLFVLSNQHMFE
 VLAAMNHRSLILLDECSKVVDNIHGCPLRIMINILQSCCKDLQYHNLDLFGKGLADYVAATFDIWKFRKVL
 FILILFENLGFRPVGLMDLFMKRIVEDPESLNMKNILSILHTYSSLNHVYKQCNKEQFVEVMASALTGYL
 HTISSENLLDAVYSFCLMNYFPLAPFNQLLQKDIISELLTSDDMKNAYKLHTLDTCLKLDVTYLRDIAL
 SLPQLPRELPSSHTNAKVAEVLSSLGGEGHFSKDVHLPNHYHIDFEIRMDTNRNQVPLSDVDTTSATD
 IQRVAVLCVRSAYCLGSSHPRGFLAMKMRHLNAMGFHVILVNNWEMDKLEMEDAVTFLKTKIYSVEALP
 VAAVNVQSTQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

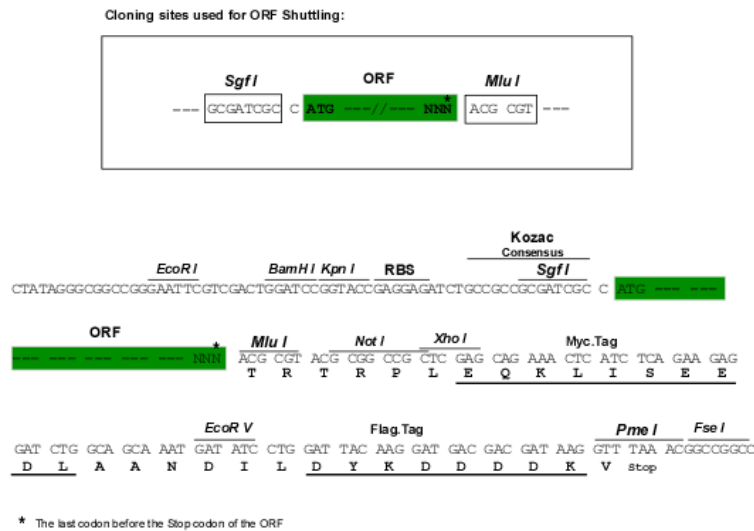
Chromatograms:

https://cdn.origene.com/chromatograms/mk6323_h04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001136193

ORF Size:

2130 bp

OTI Disclaimer:

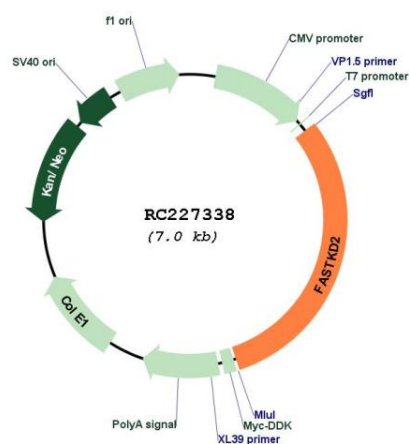
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

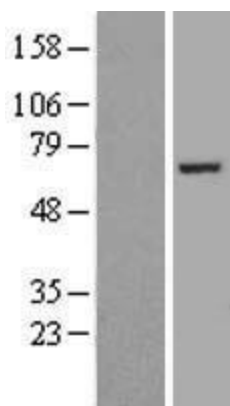
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_001136193.2
RefSeq Size:	6930 bp
RefSeq ORF:	2133 bp
Locus ID:	22868
UniProt ID:	Q9NYY8
Cytogenetics:	2q33.3
MW:	81.5 kDa
Gene Summary:	This gene encodes a protein that is localized in the mitochondrial inner compartment and that may play a role in mitochondrial apoptosis. Nonsense mutations have been reported to result in cytochrome c oxidase deficiency. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC227338



Western blot validation of overexpression lysate (Cat# [LY427842]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227579] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).