

Product datasheet for **RC239597**

FASTKD1 (NM_001281476) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FASTKD1 (NM_001281476) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FASTKD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239597 representing NM_001281476
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAAAACACCTGTTTTCTAGAGTCATTGGTTACAAATATGCTTCGCTAAGAGCTATTTGTCCAT
 TCTCCTGGAGAGTGTTCATTTTCGACCCATCAGTTGTGAACCACTAATTATTCAGATGAATAAGTGTAC
 AGATGAGGAGCAAATGTTTGGTTTTATTGAAAGAAACAAAGCCATACTTTCAGAAAAGCAAGTGGGATGT
 GCATTTGATATGCTTTGGAAGCTTCAAAAGCAGAAGACCAGCCTGTTAAAAATGCTGAGTATGTCAGAG
 ACCATCCTCAATTTCTTACTCTTCATAATTTAGCTACAAATAAATTCAAATTAATGAATGACGATACCTT
 GGTGAATGTGTTATACGTCACACAACAGTTTGTGGTGAGGCCCATGACCCGCTAGTTGAAGCACTAGTT
 ACAGAAGCATGGAGAAGGCTAGAAAGTTTGATATTAAGTCTCTCAGAATTTTCTCTTGCTAGCAG
 ATCAGCATTTGTATTTAGTCCATTAATGGGAAAAATAGCTGATATTGTCATAGGAACTTGGAAACCAC
 ACAGGACTTAAGTTCCTGTCTGTCTTGATGGTCAACATATCTTCTTTAATATCAGGACATTTTCAACAA
 CAACTGGTGAACAAAACAGAATCTTTTTGACACCATAGATTCTCTGAGGTCAACGTTGCAAAAAGCA
 TAGCAAAGTTTCTTCGAATGTTAGATATCGTTATCAACCACTATTAGAAAGATGTAATAACGTATTTTT
 AAGTAATGTGGACCACCTTGATTTGGATTCCATCAGTAAATACTTAGTGATACAAATTTCTACAATTT
 AATAGTTTTGAATTTATTATAATGGCTAAAAAGAAGCTAACTGAAATGATTCCTCTGTGTAATCATCCTG
 CTAGCTTTGTAATTTGTTTGTAGCATTGGGACCCATTGCAGGACCTGAAGAAAAGAAACAACTTAAATC
 AACTATGTTATTGATGTCAGAGGACCTAACTGGCGAGCAAGCCCTGGCAGTGTGGGAGCAATGGGAGAT
 ATGGAAAGCAGAACTCATGTCTGATTTAAAGAGTTACTTCAGTTCTGCATAAACATTTGGATGGCTATA
 AACCATTAGAGTTGTTGAAGATAACTCAAGAATTAACTTTTCTGCATTTCAAAGGAAGGAGTTTTTTCG
 GAACTTAGAGAATTACTGCTTAGTTATTGAAAAATAGTTTCATACCAACTGAGGTGTCTGTTCTGGTC
 CGTGCTATTTCCCTGCTCCCTTCTCCTCACTTGGACGAAGTGGGATATCCCGAATTGAAGCCGTTTTAC
 CACAGTGTGACCTAAATAACCTGAGTAGTTTTGCCACATCTGTTTTAAGATGGATTGAGCATGATCACAT
 GTATTTGGATAATATGACTGCGAAACAACCTGAACTACTTCAAAAATTAGATCACTATGGTCGTCAGAGA
 CTACAACACAGCAACAGTTTGGATCTGTTACGGAAGGAACTTAAATCTCTCAAAGGAAACACGTTTCCTG
 AGTCACTTCTTGAAGAAATGATTGCTACTTTACAGCATTTTCATGGATGATTAATTACATAAATGTTGG
 GGAGATTGCATCTTTATTTCTAGTACTGATTACCTCAGTACTTTGCTACTAGATAGGATAGCCTCAGTG
 GCTGTTCAAGCAGATTGAAAAGATCCATCCTTTACAATCCCTGCTATTATTCGTCCATTCAGCGTATTGA
 ACTATGATCCACCTCAAAGGGATGAATTTTGGGAACCTGCGTGCAACATCTTAATTTCTTACTTAGGTAT
 ATTGGATCCTTTTATATTAGTGTTCCTTGGTTTCTTTTGGCCCACTTGAATATTTTCCAGAAGATCTG
 CTAAAGGCAATTTTAAACATCAAATTTCTAGCTAGATTGGATTCTCAACTTGAAAGTATTGGTGGCATGG
 ATGGAACACAACAGCAGATTTTTAAATGTTAGCAGAGGTACTAGGAGGAATCAATTGTGTAAGGCTC
 GGTTCTTACGCCTTATTACCACAAAGTAGATTTTGAAGTATCTTGGATAAAAGAAAAAACCTCTTCCG
 TATGGAAGCCATAATATAGCATTGGGACAACCTACCAGAAATGCCCTGGGAATCAAATATCGAAATAGTTG
 GATCAAGGCTGCCACAGGGCTGAAAGGATTGCTTTGGAATTTTGGATTCAAAGCACTTTGTAGAAA
 TATCCCTCACATGAAAGGAAAACTGCTATGAAAAACGACATTTGGAATTTCTGGGGTATCGTGTAAAT
 CAGATTTCCAGTTTGAATGGAACCTATGGCACTGTCAACAAAGGATGCTCGGATGGACTACCTGAGAG
 AATGTATATTTGGAGAAGTCAAGTCATGTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

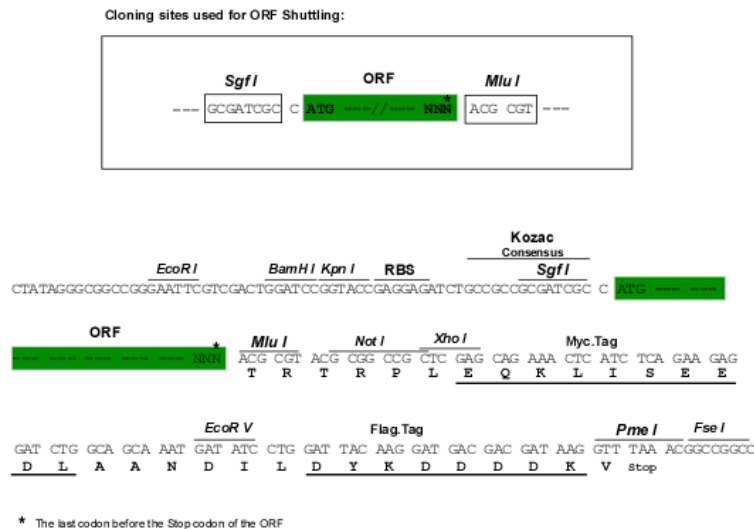
Protein Sequence: >RC239597 representing NM_001281476
 Red=Cloning site Green=Tags(s)

MKKTPVFLESVLTNMLRLRAICPFSWRVFQFRPISCEPLIIQMNKCTDEEQMFGFIERNKAILSEKQVGC
 AFDMLWKLQKQKTSLLKNAEYVRDHPQFLTLHNLATNKFKLMDDDLTVNLVYVTQQFAGEAHDPLVEALV
 TEAWRRRLERFDIKLLSEFSSCLADQHL YFSPLMGKIADIVHRNLETTQDLSSLSVLMVNISSLSRHFQQ
 QLVNKTLELLFDITDSSEVNVAKSIKFLRNVR YRYQPLLERCENNVL SNVDHLDLDSISKILSVYKFLQF
 NSFEFIIMAKKKLTEMIPLCNHPASFVKLFVALGP IAGPEEKKQLKSTMLLMSEDLTGEQALAVLGAMGD
 MESRNSCLIKRVTSVLHKHLDGYKPLELLKITQELTFLHFQRKEFFAKLRELLLSYLKNSFIPTEVSVLV
 RAISLLPSPHLDEVGISRIEAVLPQCDLNNLSSFATSVLRWIQHDHMYLDNMTAKQLKLLQKLDHYGRQR
 LQHSNSLDLLRKELKSLKGNTFPESLLEEMIATLQHFMDDINYINVG EIASFISSTDYLSLTLDDRIASV
 AVQQIEKIHPFTIPAIIRPFSVLNYDPPQRDEFLGTCVQHLNSYLGILDPFILVFLGFSLATLEYFPEDL
 LKAIFNIKFLARLDSQLESIGGMDGTQQQIFKMLAEVLGGINCVKASVLPYYHKVDFECILDKRKKPLP
 YGSHNIALGQLPEMPWESNIEIVGSRLPPGAERIALEFLDSKALCRNIPHMKGKSAMKKRHLEILGYRVI
 QISQFEWNSMALSTKDARMDYLRECIFGEVKSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001281476

ORF Size: 2412 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_001281476.2](#), [NP_001268405.1](#)

RefSeq Size: 2898 bp

RefSeq ORF: 2415 bp

Locus ID: 79675

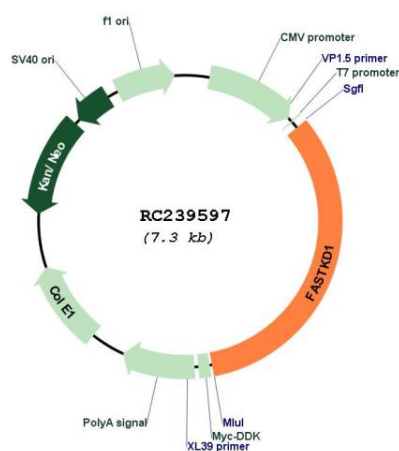
UniProt ID: [Q53R41](#)

Cytogenetics: 2q31.1

MW: 92.7 kDa

Gene Summary: Involved in the down-regulation of mitochondrial MT-ND3 mRNA levels which leads to decreased respiratory complex I abundance and activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239597