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Product datasheet for SC114768

FASTKD2 (NM_014929) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	FASTKD2
Synonyms:	COXPD44; KIAA0971
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC114768 sequence for NM_014929 edited (data generated by NextGen Sequencing)

ATGTTGACAACTTTGAAGCCATTTGGAAGTGTTTCAGTGGAGAGCAAAATGAATAACAAA
GCGGGCTCCTTTTTCTGGAACCTTAGACAATTCAGTACATTAGTTTCAACAAGCAGAACT
ATGAGGCTATGTTGTTTGGGACTTTGCAAACCAAAAATAGTTCATTCAAACTGGAACATT
TTAAATAACTTTCATAACAGAATGCAATCAACTGATATCATTAGATATCTCTTTCAGGAT
GCATTCATTTTTAAATCAGATGTTGGCTTTCAAACAAAGGGCATAAGCACTCTAACAGCC
CTTAGAATTGAAAGACTACTTTATGCTAAAAGACTGTTTTTTGACTCAAAGCAGTCTCTT
GTCCCTGTTGATAAATCTGATGATGAATTGAAGAAAGTAAACCTTAATCATGAAGTCTCC
AATGAAGATGTTCTTACCAAGGAAACAAAACCAAACCGTATCAGCAGTAGAAAACTGTCT
GAGGAATGTAATTCCCTGAGTGATGTGTTAGATGCATTTTCAAAAGCGCCCACATTTCCT
AGTAGCAACTATTTCACAGCAATGTGGACAATTGCCAAAAGACTGTCTGATGACCAGAAG
CGCTTTGAAAAACGACTGATGTTTAGCCACCCTGCATTTAATCAGCTCTGTGAACATATG
ATGAGAGAAGCCAAGATCATGCAGTATAAGTACCTACTGTTCAGTCTTCACGCCATAGTG
AAGCTTGGAATCCCTCAGAACACTATTTTGGTGCAGACTTTGCTGAGGGTGACCCAGGAA
CGTATCAATGAGTGTGATGAGATATGCCTTTCAGTTTTGTCAACTGTTTTAGAGGCAATG
GAACCATGCAAGAATGTTCATGTTCTACGAACGGGATTCAGAATACTAGTTGATCAGCAA
GTTTGGAAAATAGAAGATGTCTTCACATTACAAGTTGTGATGAAGTGTATTGGAAAAGAT
GCACCGATTGCTCTTAAGAGGAAACTGGAGATGAAAGCCTTGAGGGAATTAGACAGATTT
TCTGTTTTGAATAGCCAACACATGTTTGAAGTACTAGCTGCCATGAATCACCGATCTCTT
ATACTCCTGGATGAATGCAGTAAGGTGGTCCTAGATAATATCCATGGGTGTCCTTTAAGA
ATAATGATCAACATATTGCAGTCCTGCAAAGACCTCCAGTACCATAATTTGGATCTCTTC
AAGGGACTTGCAGATTATGTGGCTGCAACTTTCGACATCTGGAAGTTCAGAAAAGTTCTT
TTTATCCTCATTTTATTTGAAAACCTTGGCTTTCGACCTGTTGGTTTAATGGACCTGTTT
ATGAAGAGAATAGTAGAGGATCCTGAATCCCTAAACATGAAAAACATTCTATCTATTCTT
CATACTTACTCTTCTCTCAATCATGTCTACAAATGCCAGAACAAAGAACAGTTCGTGGAA
GTTATGGCTAGTGCTCTGACTGGTTATCTTCACACTATTTCTTCTGAAAACTTATTGGAT
GCAGTATATTCATTTTGCTTGATGAATTACTTTCCCCTGGCTCCTTTTAATCAGCTTCTG
CAAAAAGACATCATCAGTGAGCTGCTGACATCAGATGACATGAAGAATGCTTACAAGCTG
CATACTTTGGATACTTGTCTAAAACTTGATGATACTGTCTATCTGAGGGACATAGCCTTG
TCACTCCCACAGCTGCCGCGGGAGCTGCCATCGTCACATACAAATGCAAAGGTGGCAGAG
GTGCTGAGCAGCCTTCTGGGAGGTGAAGGACACTTCTCAAAGGATGTGCACTTGCCACAC
AATTATCATATTGATTTTGAAATCAGAATGGACACTAACAGGAATCAAGTGCTACCACTT
TCTGATGTGGATACAACTTCTGCTACAGATATTCAAAGAGTAGCTGTGCTATGTGTTTCC
AGATCTGCTTATTGTTTGGGTTCAAGCCACCCCAGAGGATTCCTTGCTATGAAAATGCGG
CATTTGAATGCAATGGGTTTTCATGTGATCTTGGTCAATAACTGGGAGATGGACAAACTA
GAGATGGAAGATGCAGTCACATTTTTGAAGACTAAAATCTATTCAGTAGAAGCTCTTCCT
GTTGCTGCTGTAAATGTGCAAAGCACACAATAA

Clone variation with respect to NM_014929.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014929 unedited
TGCACCAATTTGTAATACGACTCACTATAGGGCGGCCGCGNATTCGGCACGAGGCCTGTA
CGTAGTCACGGTCTTGTGCTCTAAGGTGAGTGGAGGACGAGCTTGGGCTTAGCGGCAGCC
CGTATCACATCCTAGACTTTTTACTTCGAGGAGAAGAGTCTCACGAGTTGTCCTGGAAGA
AAACGACAGCACGTGTTCTTTTTCACTAGTAGAAGTGACGTTGGTTTCATGTTGACAACT
TTGAAGCCATTTGGAAGTGTTTCAGTGGAGAGCAAAATGAATAACAAAGCGGGCTCCTTT
TTCTGGAACCTTAGACAATTCAGTACATTAGTTTCAACAAGCAGAACTATGAGGCTATGT
TGTTTGGGACTTTGCAAACCAAAAATAGTTCATTCAAACTGGAACATTTTAAATAACTTT
CATAACAGAATGCAATCAACTGATATCATTAGATATCTCTTTCAGGATGCATTCATTTTT
AAATCAGATGTTGGCTTTCAAACAAAGGGCATAAGCACTCTAACAGCCCTTAGAATTGAA
AGACTACTTTATGCTAAAAGACTGTTTTTTGACTCAAAGCAGTCTCTTGTCCCTGTTGAT
AAATCTGATGATGAATTGAAGAAAGTAAACCTTAATCATGAAGTCTCCAATGAAGATGTT
CTTACCAAGGAAACAAAACCAAACCGTATCAGCAGTAGAAAACTGTCTGAGGAATGTAAT
TCCCTGAGTGATGTNGTAGATGCATTTTCAAAAGCGCCCACATTTCCTAGTAGCAACTAT
TTCACAGCAATGTGGACAATTGCCAAAAGACTGTCTGATGACCAGAAGCGCTTTGAAAAC
GACTGATGTTAGCCACCCTGCATTTATCAGCTCTGTGAACTATGATGAGAGAGCCCAGAT
CATGCGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014929 unedited
GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTGATTCACAACACAATTCA
GCTATATATTTAATTTAAAAGACTTCATGAAATTGTGGGAGGGGTAAGGGGGAAAAAAGA
AGGAGAAAGGAAGGACCCCAACAACAGTAAGACTCCTTACCATCTACATCTCATCTGTGT
TTCTCTTATTATAACCCATGAAATATCTCTACCTGCAGTGCTTATTACAAATACAAATAC
CATCCTCACTCATTTTCAACAGCTACCTCACTAATTCTTACACACTTGACAACTTTAGAA
CTTTGTCCAATTATTATTTGGCCAATGCTTGAAAATGATTTAAAGGCATAACCCCAAGTC
TTAGAACAGCTTAGAGCAGGAGTATAAATATTCAGATTCCAAAGACAAGGACTACTACCC
ACATCAACCTGCCTGTGACACCTCACAACTAAGAAACCAGTTTTTAGTAGATCAAAGATG
AAAAGGTGAAACGTACAGCTCACAAATCAAATATCTGGGCACTAGAGGGAATAGGTGTGG
TTGGAAAAATAACCCTTCTGGAATTTTCTCAGCATATTTTTAAATGGCAGTAACAACATT
TCTTCCACTCCTAAAATTAATTTTAATAGTGAACTGAGGTAACATTNTTTGTCTTAGCAG
ATAGCTCAATTCCATTGACAACTGACTTGTCATCTTTATTAATTNTTACAAATGCATGTC
TCCTAATATGAAAAGGTTGATTNTCACTTTATTNGTGTGCTTGCACATTTACAGCAGNCA
CAGGAAGAGCTTCTACTGAATAGATNNTAGTCTTCAAAATGTGACTGCATCTTCCATCTN
NCTAGTTGNCCATCTCCCAGTATGACCCNAGACACATNGAAAACCCATTGCATTCAATGC
CGCATTTCATAGCAGGNAATCCTCTGGGTGGGCTTGACCCNAACATAGCAGATCTGGAAC
ACTAGCCA

Restriction Sites: ECoRI-NOT

ACCN: NM_014929

Insert Size: 4220 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:	NM_014929.2, NP_055744.2
RefSeq Size:	2908 bp
RefSeq ORF:	2133 bp
Locus ID:	22868
UniProt ID:	Q9NYY8
Cytogenetics:	2q33.3
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] Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. All three variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.