

## Product datasheet for **RG227579**

### **FASTKD2 (NM\_001136194) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | FASTKD2 (NM_001136194) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                      |
| Symbol:                   | FASTKD2                                       |
| Synonyms:                 | COXPD44; KIAA0971                             |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-AC-GFP (PS100010)                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                        |



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**ORF Nucleotide  
Sequence:**

>RG227579 representing NM\_001136194  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTGACAACCTTTGAAGCCATTTGGAAGTGTTCAGTGGAGAGCAAAATGAATAACAAAGCGGGCTCCT  
 TTTTCTGGAACCTTAGACAATTCAGTACATTAGTTTCAACAAGCAGAACTATGAGGCTATGTTGTTGGG  
 ACTTTGCAAAACAAAAATAGTTCACTTCAAACTGGAACATTTTAAATAACTTTTATAACAGAAATGCAATCA  
 ACTGATATCATTAGATATCTCTTCAGGATGCATTCATTTTAAATCAGATGTTGGCTTTCAAACAAAGG  
 GCATAAGCACTCTAACAGCCCTTAGAATTGAAAGACTACTTTATGCTAAAAGACTGTTTTTGTACTCAA  
 GCAGTCTCTTGTCCCTGTTGATAAATCTGATGATGAATTGAAGAAAGTAAACCTTAATCATGAAGTCTCC  
 AATGAAGATGTTCTTACCAAGGAAACAAAACCAACCGTATCAGCAGTAGAAAAGTCTGTGAGGAATGTA  
 ATTCCCTGAGTGTGTTAGATGCATTTTCAAAAGCGCCACATTTCTAGTAGCAACTATTTACAGC  
 AATGTGGACAATTGCCAAAGACTGTCTGATGACCAGAAGCGCTTTGAAAACGACTGATGTTTAGCCAC  
 CCTGCATTTAATCAGCTCTGTGAACATATGATGAGAGAAGCCAAGATCATGCAGTATAAGTACCTACTGT  
 TCAGTCTTCACGCCATAGTGAAGCTTGGATCCCTCAGAACACTATTTTGGTGCAGACTTTGCTGAGGGT  
 GACCCAGGAACGTATCAATGAGTGTGATGAGATATGCCTTTCAGTTTTGTCAACTGTTTTAGAGGCAATG  
 GAACCATGCAAGAATGTTTATGTTCTACGAACGGGATTGAGAATACTAGTTGATCAGCAAGTTTGGAAAA  
 TAGAAGATGTCTTACATTACAAGTTGTGATGAAGTGTATTGGAAAAGATGCACCGATTGCTCTTAAGAG  
 GAAACTGGAGATGAAAGCCTTGAGGGAATTAGACAGATTTTCTGTTTTGAATAGCCAACACATGTTTGAA  
 GTACTAGCTGCCATGAATCACCAGTCTCTTATACTCCTGGATGAATGCAGTAAGGTGGTCTAGATAATA  
 TCCATGGGTGTCTTTAAGAATAATGATCAACATATTGCAGTCTGCAAAGACCTCCAGTACCATAATTT  
 GGATCTCTTCAAGGGACTTGCAGATTATGTGGCTGCAACTTTTCGACATCTGGAAGTTCAGAAAAGTTCTT  
 TTTATCTCATTTTATTTGAAAACCTTGCTTTTCGACCTGTTGGTTAATGGACCTGTTTATGAAGAGAA  
 TAGTAGAGGATCCTGAATCCCTAAACATGAAAAACATTCTATCTATTCTTCACTACTTCTCTCTCAA  
 TCATGTCTACAAATGCCAGAACAAAGACAGTTCGTGGAAGTTATGGCTAGTGTCTGACTGGTTATCTT  
 CACACTATTTCTTCTGAAAACCTTATTGGATGCAGTATATTCATTTTCTGATGAATTACTTTCCCTGG  
 CTCCTTTTAAATCAGCTTCTGCAAAAAGACATCATCAGTGAAGTGTGACATCAGATGACATGAAGAATGC  
 TTACAAGCTGCATACTTTGGATACTTGTCTAAACTTGTGATACTGTCTATCTGAGGGACATAGCCTTG  
 TCACTCCACAGCTGCCGCGGGAGCTGCCATCGTCACATACAAATGCAAAGGTGGCAGAGGTGCTGAGCA  
 GCCTTCTGGGAGGTGAAGGACACTTCTCAAAGGATGTGCACTTGCCACACAATTATCATATTGATTTGA  
 AATCAGAATGGACACTAACAGGAATCAAGTGCTACCACTTTCTGATGTGGATACAACCTTCTGCTACAGAT  
 ATTCAAAGAGTAGCTGTGCTATGTGTTCCAGATCTGCTTATTGTTTGGGTTCAAGCCACCCAGAGGAT  
 TCCTTGCTATGAAAATGCGGCATTTGAATGCAATGGGTTTTCATGTGATCTTGGTCAATAACTGGGAGAT  
 GGACAACTAGAGATGGAAGATGCAGTCACATTTTGAAGACTAAATCTATTAGTAGAAGCTCTTCTCT  
 GTTGCTGCTGTAATGTGCAAGCACACAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG227579 representing NM\_001136194  
 Red=Cloning site Green=Tags(s)

MLTTLPFGSVSVESKMNNKAGSFFWNLRFSTLVSTSRMRLCCLGLCKPKIVHSNWNILNNFHNRMQS  
 TDIIRYLFQDAFIFKSDVGFQTKGISTLTALRIERLLYAKRLFFDSKQSLVPVDKSDDELKKVNLNHEVS  
 NEDVLTKETKPNRISSRKLSEECNSLSDVLDAFSKAPTFPSSNYFTAMWTIAKRLSDDQKRFKRLMFSH  
 PAFNQLCEHMMREAKIMQYKYLFLSLHAIYKLGIPQNTILVQTLRLVTQERINECDEICLSVLSTVLEAM  
 EPCKNVHVLRTGFRILVDQQVWKIEDVFTLQVVMKCIGKDAPIALKRKLEMKALRELD RFSVLNSQHMFE  
 VLAAMNHRSLILLDECSKVVDNIHGCPLRIMINILQSCCKDLQYHNLDLFGKLADYVAATFDIWKFRKVL  
 FILILFENLGFRLVGLMDLFMKRIVEDPESLMNMNLSILHTYSSLNHVYKCQNEQFVEVMASALTGYL  
 HTISSENLLDAVYSFCLMNYFPLAPFNQLLQKDIISELLTSDDMKNAYKLHTLDTCCLKLDDTVYLRDIAL  
 SLPQLPRELPSSHTNAKVAEVLSSLLGGEGHFSKDVHLPNHYHIDFEIRMDTNRNQVLP LSDVDTTSATD  
 IQRVAVLCVSR SAYCLGSSHPRGFLAMKMRHLNAMGFHVLVNNWEMDKLEMEDAVTFLKTKIYSVEALP  
 VAAVNVQSTQ

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001136194

**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.

**RefSeq:** [NM\\_001136194.1](#), [NP\\_001129666.1](#)

**RefSeq Size:** 6945 bp

**RefSeq ORF:** 2133 bp

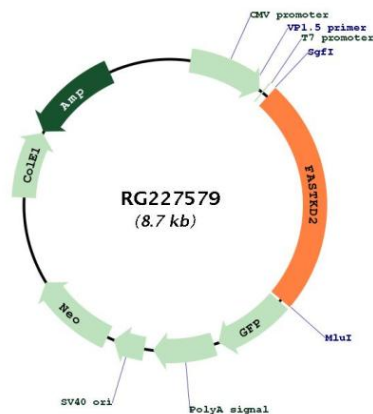
**Locus ID:** 22868

**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]

## Product images:



Circular map for RG227579