

Product datasheet for **RC231371**

KF1 (RNF103) (NM_001198951) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KF1 (RNF103) (NM_001198951) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KF1
Synonyms:	HKF-1; KF-1; KF1; ZFP-103; ZFP103
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC231371 representing NM_001198951
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTCGGCTCCGGCCCGGCCCGCTGATACACGGTTGTGGAGGTTTTTTGAGGCCATTGTGTGGT
 ATGAAACTGGCATCTTTGCCACCCAGCTGGTGGATCCGGTGGCGCTGAGCTTCAAGAAGCTGAAGACCAT
 TTTGGAGTGCCGGGGTTGGGCTACTCAGGTTGCCCGAGAAGAAGGATGTCCGGGAGCTGGTGGAAAAG
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 GTACCAATTTTCAGTGGTAAATGCACCTTCTATGAGCTTGTGGAAGACACAAAAGATGGCATCTGGCTGGT
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 TGATGTCCCATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231371 representing NM_001198951
Red=Cloning site Green=Tags(s)

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MSRLRPRPPLIHGCGGFFEIVWYETGIFATQLVDPVALSFKKLTILECRGLGYSGLPEKKDVRELVEK
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SRFGIRTGTFCSSDPRYCRRRGWVRSTLIMSVPQTSTSKGKVMLKEYSGRKEIEVEHIFKWITAHASRI
KTIYNAEHLKEEWNKSDQYWLKIYLFANLDQPPAFFSALSIFKTRVEFIFVNVENWDNKSMTDGIYIN
MPSYILRTPGIIYRYGNHTGEFISLQAMDSFLRSLQPEVNDLFVLSLVLVNLMAWMDLFIQGATIKRFV
VLI STLGTYNLLIISWLPVLGFLQPLPYLDSFYESLKLRLYSNTTTLASWVRADWMFYSSHPALFLSTY
LGHLLIDYFEKRRRRNNNDEVNANNLEWSSLWDWYTSYLFHPIASFQNFVSDWDEDPDLFLERLA
FPDLWLHPLIPTDYIKNLPWRFKCLGVQSEEMSEGSQDTENDSESENTDTLSSEKEVFEDKQSVLHNS
PGTASHCDAEACSCANKYCQTPCERKGRSYGSYNTNEDMEPDWLTWPADMLHCTECVVCLENFENGCLL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8072_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001198951

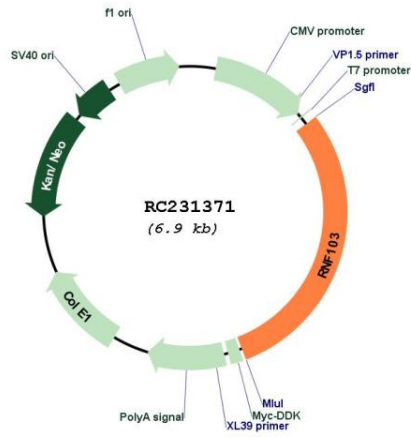
ORF Size: 2043 bp

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:	<ol style="list-style-type: none">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:	<u>NM_001198951.1, NP_001185880.1</u>
RefSeq ORF:	2046 bp
Locus ID:	7844
UniProt ID:	<u>O00237</u>
Cytogenetics:	2p11.2
Protein Families:	Druggable Genome, Transcription Factors, Transmembrane
MW:	79.1 kDa
Gene Summary:	The protein encoded by this gene contains a RING-H2 finger, a motif known to be involved in protein-protein and protein-DNA interactions. This gene is highly expressed in normal cerebellum, but not in the cerebral cortex. The expression of the rat counterpart in the frontal cortex and hippocampus was shown to be induced by electroconvulsive treatment (ECT) as well as chronic antidepressant treatment, suggesting that this gene may be a molecular target for ECT and antidepressants. The protein is a ubiquitin ligase that functions in the endoplasmic reticulum-associated degradation pathway. Alternative splicing of this gene results in multiple transcript variants. Read-through transcription also exists between this gene and the downstream CHMP3 (charged multivesicular body protein 3) gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC231371