

Product datasheet for **SC116583**

KF1 (RNF103) (NM_005667) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KF1 (RNF103) (NM_005667) Human Untagged Clone
Tag:	Tag Free
Symbol:	KF1
Synonyms:	HKF-1; KF-1; KF1; ZFP-103; ZFP103
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116583 sequence for NM_005667 edited (data generated by NextGen Sequencing)

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ATGTGGCTGAAGCTTTTTTCTTGCTCCTCTATTCCTGGTCCTGTTTCGTCCTGGCCAGG
TTTTTTGAGGCCATTGTGTGGTATGAACTGGCATCTTTGCCACCCAGCTGGTGGATCCG
GTGGCGCTGAGCTTCAAGAAGCTGAAGACCATTTGGAGTGCCGGGGGTTGGGCTACTCA
GGGTTGCCCGAGAAGAAGGATGCCGGGAGCTGGTGAAAAAGTCAGGTGACTTGTAGGAG
GGTGAGCTCTATTCTGCTCTCAAGGAAGAAGAAGCATCCGAATCGGTTTCTAGTACCAAT
TTCAGTGGTGAAATGCACCTTCTATGAGCTTGTGGAAGACACAAAAGATGGCATCTGGCTG
GTTCAGGTCATAGCAAATGACAGAAGTCCCTTGGTGGGCAAAAATCACTGGGAGAAAATG
GTTAAAAAGGTGTCAAGATTTGGAATACGTACAGGCACATTTAACTGTTCCAGTGATCCC
AGATATTGCAGGAGAAGAGGCTGGGTCCGATCCACACTCATTATGTCTGTTCCACAAAACA
AGTACTTCAAAGGGAAAGTCATGCTTAAAGAATACAGTGGACGCAAGATTGAAGTAGAG
CACATTTTAAATGGATAACTGCTCATGCAGCTTCTCGGATCAAACCATTTATAATGCT
GAACACTTGAAAGAAGAATGGAATAAAAGTGATCAGTATTGGTAAAAAATACCTATTT
GCAAACCTTGACCAGCCCCAGCTTTCTTCTGCTACTAAGTATAAAGTTTACTGGAAGA
GTTGAGTTATTTTTGTTAATGTAGAAAATTGGGACAACAAGAGTTATATGACAGATATT
GGCATATAAATATGCCATCATACATACTTAGAACTCCTGAAGGAATTTACAGGTATGGA
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CCCAGGTAATGATCTGTTTGTGTTGAGCTTGGTTCTAGTTAATCTTATGGCTTGGATG
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CCTTACTTAGATAGCTTTTATGAATATAGCTTAAAATTGTTGAGATATTCCAATACAACC
ACACTGGCTTCATGGGTAAGGGCAGACTGGATGTTTTACTTTCACACCCAGCCCTGTTT
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CACCTCTGATACCAACTGATTATATTAATAAACTTACCAATGTGGCGATTTAAATGTCTT
GGAGTCCAGTCTGAAGAGGAAATGTCGGAGGGGTCTCAAGATACTGAAAATGACTCGGAA
AGTGAGAACACAGACACTTTGAGTAGTGAGAAGGAAGTATTTGAAGATAAGCAAAGCGTA
CTTCACAATTCTCCAGGAACAGCAAGTCACTGTGATGCTGAGGCTTGTTTATGTGCCAAT
AAATATTGTCAGACCAGCCCATGTGAAAGGAAGGGGAGGTCATATGGATCATATAACACT
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TGTGTTGTTTGCCTAGAGAATTTGAAAATGGATGTTGCTAATGGGGTTGCCTGTGGT
CATGTGTTTATCAGAATTGCATTGTGATGTGGTTGGCTGGGGCCGACATTGTTGCCCT
GTTTGGCGGTGGCCTTCTATAAAAAAAGCAGCCATATGCACAACACCAGCCCTGTCA
AATGATGTCCCATCTTAA
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Clone variation with respect to NM_005667.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005667 unedited
 GGTTTCAGAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGGGACGGG
 TGCTGCGACCCGGCACTGCCCATCCGAGCGGGACGGGCGCTGAGTGGCCGGGAGGCAGCCG
 GGTAGCCGCCTGGAGGAGCAGTCTCGGGCCTATTATTGGTTTTTCCCTCCGAGACCGA
 TTCCATCTGCAGAGACCGCAGCCTCCATCCTGGGCCGGCCGAGTGCCCGCCCGCCTG
 AGAGCGCCCGCCCGCAGCCGGCCCGAGCGAACCTGGAGCCCGCCGTGCCCGCCGCTC
 TTCTCGCGGAGCCTGGCGGTTCGGCGGGCCTGGGGCCTGGGCTTCGGGCGCGGCGTTGC
 GCGGCCGCTCCTCCCCGCGAGAACACGCTGGGCCCGGGCCTGGCCCGCCGAGCGCC
 GCGCCCTCCTGACCCGCGCCGCGGGAGTCCGGCCCCACGGCCCTCGGGCCCCGGCCT
 GCCGCCGGATCCCCGCCTCCTGGGCGGATCTGAGTTATTTTTGGTCTCCCCCTCCCC
 TTGAGATCGCGGCACCGGAGGGCCGACCCGCCACCTGGGTGAGTCCCGCCCGGGGA
 AGCGTCCCTCGTTTTGTCTTCCCCGCGAGCTCTCCCGCGCCCTCTCCTTTCTGTGCT
 TAATGGATGGGGTTTTGAGTTTTCCCTTTATTTNTGTGGCTCTTGACTGGGAGGCC
 CGGCGGAGGCTCTGCGTCTCTGCTCCCTCGTCGCCCTCGCGCCCGCGGGATCCCG
 TCACCTGTTCCCCGCGGGGATGGCCGCCAGTGACGGCGCCGGTGGCCCGCGCGTGG
 ACACGGGGCCCTCGCCAAGCTGCCACCGAGCCGCGGGCCCCGCCCTCGACCCTTTTCTC
 TCCCGTATTCCGAGCTCTCTGGGAAGAGAGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005667 unedited
 TACGAGGCCGATTTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTCGGGTTAAAAATAATTTAATTTTATAAGGCCGTTAAATTTTCATGTCTCA
 CAGCATACTTTTTTAAACAAAAGGGGCTGGACAGAAATTGTAAGGGGAGGAACCTTT
 TAGGATAAAAAACCGGCTCAATTCATTAATAATTTGACCTATCTTGAAAAGCCTTGCTA
 GGATAAATTTCTATAAACTTCTTTGGGGCTTACAAAAAACATTAACCTCTGAATTC
 AATGTTGAAAATAAAAAATTTTACAATTAGGTATGCTTTTCAATTAACACACAAGGCACC
 CAAATAAATTTCTGCCATCAACATTACCATAAGGGGTTTTTCCCGTCACTGCACTAACATT
 AAATAAATTTCAAAACAAAAACTTTGGGACTAACATTAAGGCAAGCTGTAAAT
 ACTCAAAGCTTATAAAGGACAAATTTGCCATGGTTAAATGGGACATCTTTTGACAAGGG
 CTGGTGTGGGCATATGGCTGCTTTTTTTTATAAGAAGGCCACCGCAAACAGGGCAACA
 TTGTGGGCCCCAGCCAACCCATCACAATGCATTTCTGATGAAACACATGACCACAAGG
 GCACCCCTTAGCAAAACATCCATTTTTTAAATTTCTAGGCAAACACACATTCAGTACA
 GTGCAGCTTATAAGCAGGCCAAGTTTACCAATCAGGTCCATATCTTATTAAAGGTATATGA
 ACCATATGAACCCCTTCTTAAACATGGGCTGCTCGACATATTTATTGCCCATGAAACA
 GCCTAAGATCACAGGACTTGTGTTCTGAGATTGGGAAGACCTTTGCTATTTTCAAAC
 TTCCTTCCACTACAAAGGGCCGGGTCCACTTCCGAGCATTTTAGATTTTGAACCCCC
 ACATTCCTTTAAATGAACTCAAATTAATCCCAATGGAATTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_005667

Insert Size:

3440 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:	<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:	NM_005667.2 , NP_005658.1
RefSeq Size:	3493 bp
RefSeq ORF:	2058 bp
Locus ID:	7844
UniProt ID:	O00237
Cytogenetics:	2p11.2
Domains:	RING
Protein Families:	Druggable Genome, Transcription Factors, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>