

Product datasheet for **RG207203**

KF1 (RNF103) (NM_005667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KF1 (RNF103) (NM_005667) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KF1
Synonyms:	HKF-1; KF-1; KF1; ZFP-103; ZFP103
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207203 representing NM_005667
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGCTGAAGCTTTTTTCTGCTCCTCTATTTCTGGTCCTGTTCTGCTCTGCCAGGTTTTTTGAGG
 CCATTGTGTGGTATGAACTGGCATCTTTGCCACCCAGCTGGTGGATCCGGTGGCGCTGAGCTTCAAGAA
 GCTGAAGACCATTTGGAGTGCCGGGGTTGGGCTACTCAGGGTTGCCCGAGAAGAAGGATGTCCGGGAG
 CTGGTGGAAAAGTCAGGTGACTTGATGGAGGGTGAGCTCTATTCTGCTCTCAAGGAAGAAGAAGCATCCG
 AATCGGTTTCTAGTACCAATTTCAAGTGGTAAATGCACCTCTATGAGCTTGTGGAAGACACAAAAGATGG
 CATCTGGCTGGTTCAGGTCATAGCAAATGACAGAAGTCCCTTGGTGGGCAAAATTCCTGGGAGAAAATG
 GTTAAAAAGGTGTCAAGATTTGGAATACGTACAGGCACATTTAACTGTTCCAGTGATCCAGATATTGCA
 GGAGAAGAGGCTGGTCCGATCCACACTCATTATGTCTGTTCCACAAACAAGTACTTCAAAGGGAAAGT
 CATGCTTAAAGAATACAGTGGACGAAGATTGAAGTAGAGCACATTTTTAAATGGATAACTGCTCATGCA
 GCTTCTCGGATCAAACCATTTATAATGCTGAACACTTGAAAGAAGAATGGAATAAAAGTGATCAGTATT
 GGTAAAAAATATACCTATTTGCAAACCTTGACCAGCCCCAGCTTTCTTCCCTGCACTAAGTATAAAGTT
 TACTGGAAGAGTTGAGTTATTTTTGTTAATGTAGAAAATTTGGGACAACAAGAGTTATATGACAGATATT
 GGCATATAAATATGCCATCATACATACTTAGAACTCCTGAAGGAATTTACAGGTATGAAAACACACAG
 GCGAATTTATATCCCTTCAGGCCATGGATTCATTTTTGCGCTCATTACAACCCGAGGTAATGATCTGTT
 TGTTTTGAGCTTGGTTCTAGTTAATCTTATGGCTTGGATGGACTATTTATTACACAAGGAGCTACCATA
 AAGCGATTTGTGGTTCATAGAAGCACTTAGGGACATATAATTCTCTATTAATTTCTTGAGATATTC
 TGTTGGGCTTTTTACAGCTACCTTACTTAGATAGCTTTTTATGAATATAGCTTAAATTTGTTGAGATATTC
 CAATACAACCACTGGCTTCATGGTAAGGGCAGACTGGATGTTTTACTCTTCACACCCAGCCCTGTTT
 CTCAGTACATACCTTGGTCATGGTTTACTAATTGATTACTTTGAGAAGAAGAGAAGGCGCAACAACAACA
 ATGATGAAGTCAATGCCAATAACTTAGAATGGTTATCAAGTCTGTGGGACTGGTACACCAGCTACCTCTT
 CCACCCGATTGCTTCTTTTCAGAACTTTCTGTAGAATCTGATTGGGACGAAGACCCTGACTTATTCTTG
 GAGCGCTTAGCTTTCCCTGACCTTTGGCTTACCATCTGATACCAACTGATTATATTAATAAATTACCAA
 TGTGGCGATTTAAATGTCTTGGAGTCCAGTCTGAAGAGGAAATGTCGGAGGGGTCTCAAGATACTGAAAA
 TGACTCGAAAAGTGAGAACACAGACACTTTGAGTAGTGAAGGAAGTATTTGAAGATAAGCAAAGCGTA
 CTTACAATTCTCCAGGAACAGCAAGTCACTGTGATGCTGAGGCTTGTTCATGTGCCAATAAATATTGTC
 AGACCAGCCCATGTGAAAGGAAGGGGAGGTCATATGGATCATATAACACTAATGAAGATATGGAACCTGA
 TTGGTTAACTTGGCTGCTGATATGCTGCACTGTACTGAATGTGTTGTTTGCCTAGAGAATTTTGAAAAT
 GGATGTTTGCTAATGGGTTGCCTTGTGGTCATGTGTTTCATCAGAATTGCATTGTGATGTGGTTGGCTG
 GGGGCCGACATTGTTGCCCTGTTTGGCGTGGCCTTCTTATAAAAAAAGCAGCCATATGCACAACACCA
 GCCCTGTCAAATGATGTCCCATCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207203 representing NM_005667
Red=Cloning site Green=Tags(s)

```
MWLKLFLLLYFLVLFVLARFFEAIVWYETGIFATQLVDPVALSFKKLTILECRGLGYSGLPEKKDVRE
LVEKSGDLMGELYSALKEEEASESVSSTNFSGEMHFYELVEDTKDGIWLVOVIANDRSPLVGKIHWEKM
VKKVSRFGIRTGFNCSSDPRYCRRRRGWVRSTLIMSVPQTSTSKGKVMLKEYSGRKIEVEHIFKWITAHA
ASRIKTIYNAEHLKEEWNKSDQYWLKIYLFANLDQPPAFFPALSIKFTGRVEFIFVNVENWDNKSMTDI
GIYNMPSYILRTPEGIYRYGNHTGEFISLQAMDSFLRSLQPEVNDLFLVLSLVNLMAWMDLFIQGATI
KRFVVLISTLGTYNLLIISWLPVLGFLQLPYLDSFYEYSLKLLRYSNTTTLASWVRADWMFYSSHPALF
LSTYLGHLLIDYFEKRRRRNNNDEVNANNLEWLSSLWDWYTSYLFHPIASFQNFVSDWDEDPDFLFL
ERLAFPDWLHHLIPTDYIKNLPWRFKCLGVQSEEEMSEGSQDTENDSESENTDLSSEKEVFEDKQSV
LHNSPGTASHCDAEACSCANKYCQTPCERKGRSYGSYNTNEDMEPDWLTWPADMLHCTECVVLENFEN
GCLLMGLPCGHVFHQNCIVMWLAGGRHCCPVCRWPSYKKKQPYAQHQPLSNDVPS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005667

ORF Size: 2055 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_005667.2](#), [NP_005658.1](#)

RefSeq Size: 3493 bp

RefSeq ORF: 2058 bp

Locus ID: 7844

UniProt ID: [O00237](#)

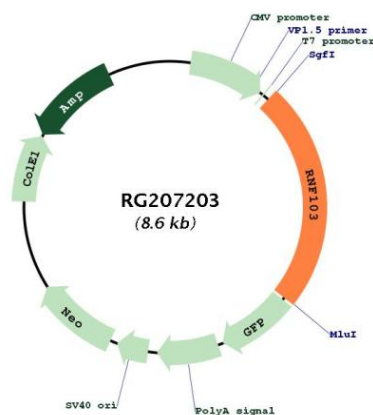
Cytogenetics: 2p11.2

Domains: RING

Protein Families: Druggable Genome, Transcription Factors, Transmembrane

Gene Summary: 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 RG207203

