

## Product datasheet for **RG208507**

### **NKRF (NM\_017544) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NKRF (NM_017544) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NKRF
Synonyms:	ITBA4; NRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG208507 representing NM\_017544  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAAAAATTCTCAAATGGCTGAAGGTATTGATATTGGGAGATGCCTTCATATGATCTGGTGTCTG  
CCAAACCTTCAAAGGTCAAAAACGCCACTCTCAACATGTGATGGTCAAATCCTCCTAAAAAGCAAGC  
CGTTTCAAATTCATGCGAGACCTCGTTTTGAGCCTGTACATTTGTAGCTAGTAGTTCAAAAGATGAA  
AGACAGGAAGATCCTTATGGCCCTCAAACAAAAGAGGTAATGAACAAACACATTTTCCAGCATGCCAA  
GAGACATCTACCAAGATTATACTCAAGACTCTTTCAGTATACAAGATGGGAATTCAGTATTGTGATTC  
ATCAGGATTCATTCTCACAAAAGACCAGCCTGTAACAGCCAACATGTATTTTACAGTGGGAACCTGCC  
CCAAGCACCATCACAGCAGGCAAACCTCAGTCAACTCCTGAGCCTTACCATCACAGACATTTCCCG  
AGTCTGTGGTAGCCGAGAAGCAGTATTTTATTGAAAAATTAACGGCGACAATCTGGAAGAACCTTTCTAA  
TCCAGAAATGACTTCTGGATCTGATAAAATTAATTATACATATATGTTAACTCGTTGTATTCAGGCGTGT  
AAGACAAATCCTGAGTATATATGCTCCTTTAAAGGAAATTCCTCCTGCCGACATCCCCAAAAATAAAA  
AACTTCTAACTGATGGCTATGCTTGTGAAGTTAGATGCCAAAATATCTACTTAACTACAGGTTATGCTGG  
CAGCAAGAATGGGTCCAGGGATCGAGCTACAGAGCTAGCTGTAAGCTTGCAGAAACGTATTGAAGTT  
AGAGTTGTCCGGCGGAAATTCAGCATAACATTTGGAGAGGACCTCGTGGTGTGTGAGATTGGCATGTCT  
CCTATGAATTTCTCCAGCTCTGAAGCCACCAGAAGACCTGGTGGTGTGGGTAAGATGCTTCCGGGCA  
GCCAATTTTTAATGCTTCTGCCAAACACTGGACCAATTTTGTATTACAGAAAATGCAAAATGATGCAATT  
GGTATCCTTAACAATTCGCCTCATTCAACAAGATGTCAATTGAATACAAATATGAGATGATGCCAAATC  
GCACATGGCGTTGTGAGTGTTTTTACAAGATCACTGCTTAGCTGAAGGTTATGGAACCAAGAAAACAAG  
TAAACATGCAGCTGCCGACGAGGCTTTGAAAATCTTCAAAAAACACAGCCCACTTATCCATCTGTCAAA  
AGTTCACAATGCCATACAGGCTTTCACCCAGAGGATCTGGAAAGAAGAAAGATATAAAGGATCTTGTAG  
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GTATGTCTATGAAAGGATGACAGGCCTCCGCTGGAAATGCAAAGTGATTCTAGAGAGTGAAGTAATTGCA  
GAAGCAGTTGGGGTGAAGAAAACGTCAAATATGAAGTGTGGGGAAGCTGTGAAAACCTCAAAAAGA  
CCCAGCCAACGTCAATTAACAACCTGAAGAAAGGAGCTGTTGAAGATGTGATTTCAAGAAATGAAATTC  
GGGCCGCTCAGCAGAGGAGGCTTACAAACAGCAAATCAAAGAAGATAATATTGAAATCAGCTGCTGAGA  
AAGATGGGTTGGACTGGTGGTGGTTTAGGTAAATCTGGTGAAGGCATACGGGAGCCTATCTCAGTAAAAG  
AGCAGCATAAGCGGGAAGGGCTTGGTCTGGATGTAGAGAGGGTGAATAAAATGCCAAGAGAGATATTGA  
ACAGATCATCAGAACTACGCCCGCTCCGAGAGCCACACAGATTTGACTTCTCTAGAGAGCTGACTAAT  
GATGAACGGAAGCAAATACATCAGATTGCCAGAAGTATGGTCTTAAGAGTAAGTCTCATGGGGTGGGCC  
ATGATAGGTACCTAGTGGTAGGTAGAAAAGACGGAAGGAAGACCTACTAGATCAGCTCAAACAGGAAGG  
CCAAGTGGGCCATTACGAGCTTGTATGCCTCAAGCAAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208507 representing NM\_017544  
 Red=Cloning site Green=Tags(s)

MEKILQMAEGIDIGEMPSYDLVLSKPSKGQKRHLSTCDGQNPCKQAGSKFHARPRFEPVHFVASSSKDE  
 RQEDPYGPQTKEVNEQTHFASMPRIYQDYTDQSF SIQDGN SQYCDSSGFILTKDQPV TANMYFDSGNPA  
 PSTTSQQANSQSTPEPSPSQTFPE SVVAEKQYF IEKLTATIWKNL SNPEMTSGSDKIN YTYMLTRCIQAC  
 KTNPEYIYAPLKEIPPADIPKNKLLTDGYACEVRCQNIYLTTGYAGSKNGSRDRATELAVKLLQKRIEV  
 RVVRRKFKHTFGEDLVVCQIGMSSYEFPPALKPPEDLVVLGKDASGQPIFNASAKHWTNFVITENANDAI  
 GILNNSASFNKMSIEYKYEMMPNRTWRCRVFLQDHCLAEGYGTKKT SKHAAADEALKILQKTQPTYPSVK  
 SSQCHTGS SPRSGKKKDIKDLVYENSSNPVCTLNDTAQFNRM TVEYVYERMTGLRWKCKVILESEVIA  
 EAVGVKTKV KYEAAGEAVKTLKKTQPTVINLKKGAVEDVISRNEIQGRSAEEAYKQ QIKEDNIGNQLLR  
 KMGWTGGGLGKSGEGIREPISVKEQHKREGLDVERVNKIAKRDI EQIIRNYARSESHTDLTFSREL TN  
 DERKQIHQIAQKYGLKSKSHGVGHDRYL VVGRKRRKEDLLDQLKQEGQVGHYELVMPQAN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017544

**ORF Size:** 2070 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_017544.4](#)

**RefSeq Size:** 3249 bp

**RefSeq ORF:** 2355 bp

**Locus ID:** 55922

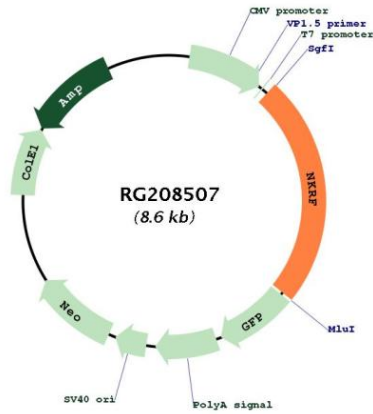
**UniProt ID:** [O15226](#)

**Cytogenetics:** Xq24

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a transcriptional repressor that interacts with specific negative regulatory elements to mediate transcriptional repression of certain nuclear factor kappa B responsive genes. The protein localizes predominantly to the nucleolus with a small fraction found in the nucleoplasm and cytoplasm. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RG208507