

Product datasheet for **RG205689**

KIN (NM_012311) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIN (NM_012311) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIN
Synonyms:	BTCD; KIN17; Rts2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205689 representing NM_012311 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGGGAAGTCGGATTTTCTTACTCCCAAGGCTATCGCCAACAGGATCAAGTCCAAGGGGCTGCAGAAGC
 TACGCTGGTATTGCCAGATGTGCCAGAAGCAGTGCCGGGACGAGAATGGCTTTAAGTGTCATTGTATGTC
 CGAATCTCATCAGAGACAACCTATTGCTGGCTTCAGAAAATCCTCAGCAGTTTATGGATTATTTTTCAGAG
 GAATTCGAAATGACTTTCTAGAACTTCTCAGGAGACGCTTTGGCACTAAAAGGGTCCACAACAACATTG
 TCTACAACGAATACATCAGCCACCGAGAGCACATCCACATGAATGCCACTCAGTGGGAACTCTGACTGA
 TTTTACTAAGTGGCTGGGCAGAGAAGGCTTGTGCAAAAGTGGACGAGACACCAAAAGGCTGGTATATTCAG
 TACATAGACAGGGACCCAGAACTATCCGCCGGCAACTGGAAGTGGAGAAAAAGAAAAAGCAGGACCTTG
 ATGATGAAGAAAAAACTGCCAAATTTATTGAAGAGCAAGTGAGAAGAGGCCTGGAAGGGAAGGAACAGGA
 GGTCCCTACTTTTACGGAATTAAGCAGAGAAAAATGATGAAGAGAAAGTCACGTTTAATTTGAGTAAAGGA
 GCATGTAGCTCATCCGGAGCAACATCTTCCAAGTCAAGTACTCTGGGACCGAGTGCACTGAAGACGATAG
 GAAGTTCAGCATCAGTGAACGAAAAGAATCTTCCAGAGCTCAACTCAGTCTAAAGAAAAGAAGAAAAA
 GAAATCTGCACTGGATGAAATCATGGAGATTGAAGAGGAAAAGAAAAGAACTGCCGAACAGACTACTGG
 CTACAGCCTGAAATTATTGTGAAATTATAACCAAGAACTGGGAGAGAAATATCATAAGAAAAAGGCTA
 TTGTTAAGGAAGTAATTGACAAATATACAGCTGTTGTGAAGATGATTGATTCTGGAGACAAGCTGAAACT
 TGACCAGACTCATTTAGAGACAGTAATTCAGCACCAGGAAAAAGAATTCTAGTTTTAAATGGAGGCTAC
 AGAGGAAATGAAGGTACCCTAGAATCCATCAATGAGAAGACTTTTTCAGCTACTATCGTCATTGAAACTG
 GCCCTTTAAAGGACGCAGAGTTGAAGGAATTCATATGAAGACATTTCTAACTTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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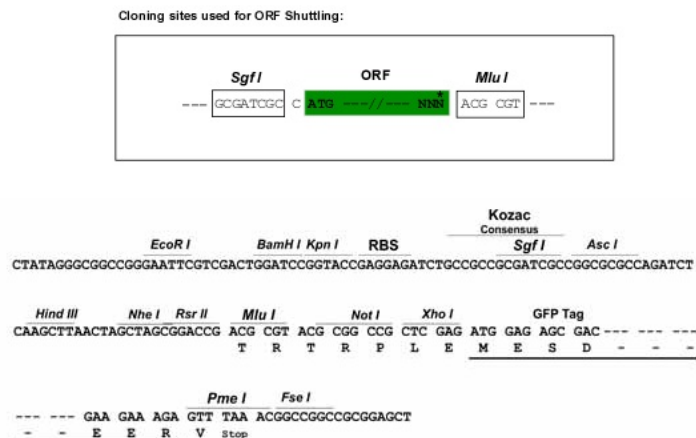
Protein Sequence: >RG205689 representing NM_012311
 Red=Cloning site Green=Tags(s)

MGKSDFLTPKAIANRIKSKGLQKLWYQMCQKQCRDENGFKCHCMSESHQRQLLLASENPQQFMDYFSE
 EFRNDFLELLRRRFGTKRVHNNIVYNEYISHREHIHMNATQWETLTDFTKWLGREGLCKVDETPKGWYIQ
 YIDRDPETIRRLQLELEKKKKQDLDEEKTAKEIEQVRRGLEGKEQEVPTFTELSRENDEEKVTFNL SKG
 ACSSSGATSSKSTLGPSALKTIGSSASVKRKESQSSSTQSKKKKKKKSALDEIMEIEEEKKRTARTDYW
 LQPEIIVKIIITKKLGEKYHKKKAIVKEVIDKYTAVVKMIDSGDKLKLDTHTLETVIPAPGKRILVLNGGY
 RNEGTLSESINEKTF SATIV IETGPLKGRRVEGIQYEDISKLA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012311

ORF Size: 1179 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_012311.4](#)

RefSeq Size: 1906 bp

RefSeq ORF: 1182 bp

Locus ID: 22944

UniProt ID: [O60870](#)

Cytogenetics: 10p14

Domains: KOW

Gene Summary: The protein encoded by this gene is a nuclear protein that forms intranuclear foci during proliferation and is redistributed in the nucleoplasm during the cell cycle. Short-wave ultraviolet light provokes the relocalization of the protein, suggesting its participation in the cellular response to DNA damage. Originally selected based on protein-binding with RecA antibodies, the mouse protein presents a limited similarity with a functional domain of the bacterial RecA protein, a characteristic shared by this human ortholog. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG205689