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Product datasheet for RC206432

FN3K (NM_022158) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FN3K (NM_022158) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FN3K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC206432 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGCTGCTGCGCGCCGAGCTGCGCACCGCGACCCTGCGGGCCTTCGGCGGCCCCGGCGCCGGCT
GCATCAGCGAGGGCCGAGCCTACGACACGGACGCAGGCCCAGTGTTCGTCAAAGTCAACCGCAGGACGCA
GGCCCGGCAGATGTTTGAGGGGGAGGTGGCCAGCCTGGAGGCCCTCCGGAGCACGGGCCTGGTGCGGGTG
CCGAGGCCCATGAAGGTCATCGACCTGCCGGGAGGTGGGGCCGCCTTTGTGATGGAGCATTTGAAGATGA
AGAGCTTGAGCAGTCAAGCATCAAAACTTGGAGAGCAGATGGCAGATTTGCATCTTTACAACCAGAAGCT
CAGGGAGAAGTTGAAGGAGGAGGAGAACACAGTGGGCCGAAGAGGTGAGGGTGCTGAGCCTCAGTATGTG
GACAAGTTCGGCTTCCACACGGTGACGTGCTGCGGCTTCATCCCGCAGGTGAATGAGTGGCAGGATGACT
GGCCGACCTTTTTCGCCCGGCACCGGCTCCAGGCGCAGCTGGACCTCATTGAGAAGGACTATGCTGACCG
AGAGGCACGAGAACTCTGGTCCCGGCTACAGGTGAAGATCCCGGATCTGTTTTGTGGCCTAGAGATTGTC
CCCGCGTTGCTCCACGGGGATCTCTGGTCGGGAAACGTGGCTGAGGACGACGTGGGGCCCATTATTTACG
ACCCGGCTTCCTTCTATGGCCATTCCGAGTTTGAACTGGCAATCGCCTTGATGTTTGGGGGGTTCCCCAG
ATCCTTCTTCACCGCCTACCACCGGAAGATCCCCAAGGCTCCGGGCTTCGACCAGCGGCTGCTGCTCTAC
CAGCTGTTTAACTACCTGAACCACTGGAACCACTTCGGGCGGGAGTACAGGAGCCCTTCGTTGGGCACCA
TGCGAAGGCTGCTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC206432 protein sequence
Red=Cloning site Green=Tags(s)

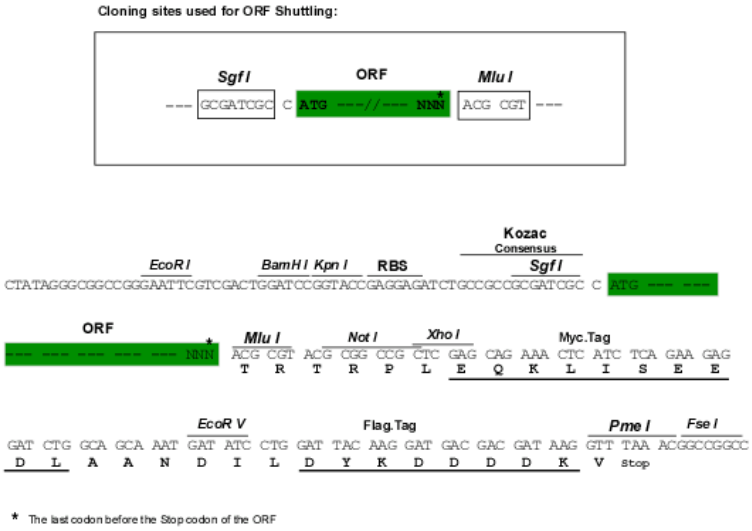
MEQLLRAELRTATLRAFGGPGAGCISEGRAYDTDAGPVFVKVNRRTQARQMFEGEVASLEALRSTGLVRV
PRPMKVIDLPGGGAAFVMEHLKMKSLSSQASKLGEQMADLHLYNQKLREKLKEEENTVGRRGEGAEPQYV
DKFGFHTVTCCGFIPQVNEWQDDWPTFFARHRLQAQLDLIEKDYADREARELWSRLQVKIPDLFCGLEIV
PALLHGDLWSGNVAEDDVGPIIYDPASFYGHSEFELAIALMFGGFPRSFFTAYHRKIPKAPGFDQRLLLY
QLFNYLNHWNHFGREYRSPSLGTMRRLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Chromatograms: https://cdn.origene.com/chromatograms/mk6283_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022158

ORF Size: 927 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).

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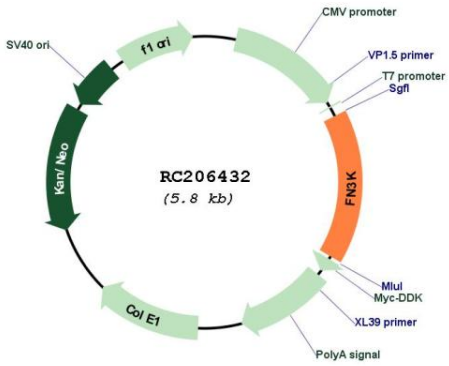
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_022158.2, NP_071441.1
RefSeq Size:	1433 bp
RefSeq ORF:	930 bp
Locus ID:	64122
UniProt ID:	Q9H479
Cytogenetics:	17q25.3
Domains:	Fructosamin_kin
Protein Families:	Druggable Genome
MW:	35.2 kDa
Gene Summary:	A high concentration of glucose can result in non-enzymatic oxidation of proteins by reaction of glucose and lysine residues (glycation). Proteins modified in this way, fructosamines, are less active or functional. This gene encodes an enzyme which catalyzes the phosphorylation of fructosamines which may result in deglycation. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC206432

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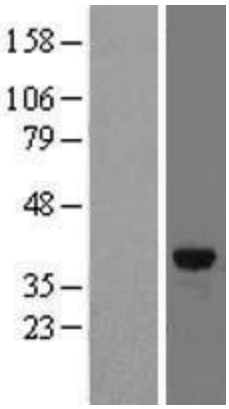
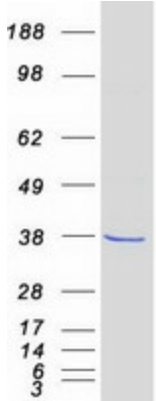


Western blot validation of overexpression lysate (Cat# [LY411735]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206432 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FN3K protein (Cat# [TP306432]). The protein was produced from HEK293T cells transfected with FN3K cDNA clone (Cat# RC206432) using MegaTran 2.0 (Cat# [TT210002]).

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