

Product datasheet for RC224249

FAN1 (NM_014967) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAN1 (NM_014967) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAN1
Synonyms:	hFAN1; KIAA1018; KMIN; MTMR15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224249 representing NM_014967 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTCAGAAGGGAAACCTCCTGACAAAAAAGGCCTCGTAGAAGCTTATCAATCAGCAAGAATAAGA
AAAAAGCATCTAATTCTATTATTTTCGTGTTTTAACAAATGCACCACCTGCTAAACTGCCTGCCCGTTTG
CAGTAAAAATGGTGCCTAGATATGACTTAAACCGGCACCTTGATGAAATGTGTGCTAACAATGACTTCGTT
CAAGTGGATCCAGGCAGGTTGGCTTAATAAATCAAATGTGTCTATGGTAGATTAACCAAGTGTACCT
TAGAAGATGTAACACCTAAGAAGTCACCACCACCAAAGACAAATTAACCCCTGGCCAAAGTGATTCAGC
AAAAAGGGAAGTAAAGCAGAAGATCAGTCCCTACTTTAAAAGTAATGATGTGGTGTGCAAAAATCAAGAT
GAGCTGAGAAATCGTAGTGTGAAAGTCATTTGTTGGGAAGCCTAGCATCTAAATTTGCCAGAAAATACG
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AGTTGTTAAGAGCCTGATTGATAACTCTTCAGAAATTGAGGACGAGGATCAAATTTGGAGAACAGTTCT
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GTAAAAATATGGAAGCCGAAAGCCAAAAGGCTACCCGGGAATGTGAGAAATCAGCCCTCACCCCTGGATT
CTCAGATAATGCGATCATGTTATTCTCACCAGATTTCACTCTTAGGAATACATTAAGTCTACTTCAGAA
GACAGTCTTGTAAGCAAGAGTGTATCAAAGAAGTGGTTGAAAAACGTGAGGCATGTCATTGTGAAGAAG
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ACTACCTTCGGAGTTTCTTGTGGTGTGAAAACCGTACTTGAGAATGAAGATGATATGTTGCTCTTTGA
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CACCTGTGATTGAAGAATTGACGAATGCAGGCTTTCTACAGACAGAATCTGAGTTGCAAGAACTCTCTGA
AGTGCTTGAACCTTTCTGCTCCTGAACTAAAATCCCTAGCCAAGACCTTCCACTTGGTGAATCCCAAT



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GGACAGAAACAGCAGCTGGTGGACGCCTTTCTCAAATTGGCCAAACAGCGTTTCAGTCTGCACTTGGGGCA
 AGAATAAGCCTGGAATTGGTGCAGTGATTTTAAAAAGAGCCAAAGCCTTGGCTGGACAGTCACTACGAAT
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 GATCGTCTTTCACATAAGCAGATGATCTGGCTGGCTGAAGTGCAGAAGCTGGGGGCTGAAGTAGAAGTCT
 GCCACGTGTTGCAGTTGGAGCTAAGAGCCAAAGCCTTAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224249 representing NM_014967
 Red=Cloning site Green=Tags(s)

MMSEGGPPDKRPRRSLISKNKKKASNSIISCFNNAPPAKLACPVCSKMVPRYDLNRHLDEMCANNDV
 QVDPGQVGLINSVSMVDLTSVLEEDVTPKSPPPKTNLTPGQSDSAKREVKQKISPYFKSNDVVKNDQ
 ELRNRSVKVICLGLASKLSRKVYKAKKSIDKDEEFAGSSPQSSKYTVVKSLLIDNSSEIEDEDQILENSS
 QKENVFKCDSLKEECIPEHMRVRESKIMEAESQKATRECEKLSALTPGFSDNAIMLFSDFTLRNTLKSTSE
 DSLVKQECIKVEKREACHCEEVMTVASEAKIQLSDSEAKSHSADDASAWSNIQEAPLQDDSLNND
 IPHSIPLEQSSCNGPGQTTGHPYLLRSFLVVLKTVLENEEDMLLFDEQEKGIVTKFYQLSATGQKLYVR
 LFRKLSWIKMTKLEYEIEALDLPVIEELTNAGFLQTESELQELSEVLELLSAPELKSIAKTFHLVNP
 GQKQQLVDAFLKLAQRVCTWGKPKGIGAVILKRAKALAGQSVRICKGPRAVFSRILLLFSLTDSMED
 EDAAACGGQQLSTVLLVNLGRMEFPSYTIINRKTIFQDRDDLIRYAAATHMLSDISSAMANGNWEAKEL
 AQCAKRDWNRLKNHPSLRCHEDLPLFLRCFTVWGIYTRILSRFVEILQRLHMYEEAVRELESLLSQRIYC
 PDSRGRWDRALNLHQHLKRLIPTIKCITEGLADPEVRTGHRSLYQRAVRLRESPECKFKHFLQQLP
 EMAVQDVKHVITITGRLCPQRMCKSVFVMEAGEADPTTVLCSVEELALAHYRRSGFDQGIHGEGSTFST
 LYGLLLWDIIFMDGIPDVFNRACQAFPLDLCTDSFFTSRRPALEARLQLIHDAPPEESLRAWVAATWHEQE
 GRVASLVSWDRFTSLQQAQDLVSCLGGPVL SGVCRHLAADFRHCRGGLPDLVWVNSQSRHFKLVEVKGP
 DRLSHKQMIWLAELQKLGAEEVCHVVAVGAKSQSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6112_g05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_014967

ORF Size: 3051 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_014967.5](#)

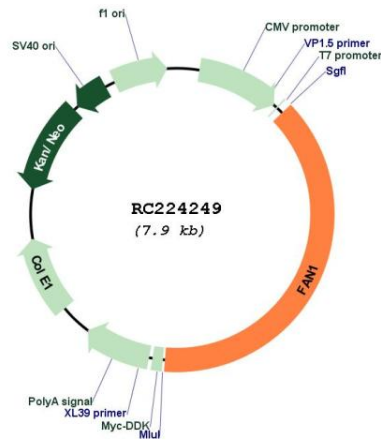
RefSeq Size: 4835 bp

RefSeq ORF: 3054 bp

Locus ID: 22909

UniProt ID: [Q9Y2M0](#)
Cytogenetics: 15q13.3
Domains: ZnF_Rad18
MW: 114 kDa
Gene Summary: This gene plays a role in DNA interstrand cross-link repair and encodes a protein with 5' flap endonuclease and 5'-3' exonuclease activity. Mutations in this gene cause karyomegalic interstitial nephritis. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC224249