

## Product datasheet for SC114695

### FAN1 (NM\_014967) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FAN1 (NM_014967) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAN1
Synonyms:	hFAN1; KIAA1018; KMIN; MTMR15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114695 sequence for NM_014967 edited (data generated by NextGen Sequencing)

```

ATGATGTCAGAAGGGAAACCTCCTGACAAAAAAGGCCTCGTAGAAGCTTATCAATCAGC
AAGAATAAGAAAAAGCATCTAATTCTATTATTCGTGTTTTAAACAATGCCACCACCTGCT
AAACTTGCTGCCCGTTTGCAGTAAAATGGTGCCTAGATATGACTTAAACCGGCACCTT
GATGAAATGTGTGCTAACAATGACTTCGTTCAAGTGGATCCAGGGCAGGTTGGCTTAATA
AATTCAAATGTGTCTATGGTAGATTTAACCAGTGTACCTTAGAAGATGTAACACCTAAG
AAGTCACCACCACCAAAGACAAATTTAACCCCTGGCCAAAGTGATTGAGCAAAAAGGGAA
GTAAGCAGAAGATCAGTCCCTACTTTAAAAGTAATGATGTGGTGTGCAAAAATCAAGAT
GAGCTGAGAAATCGTAGTGTGAAAGTCATTTGTTGGGAAGCCTAGCATCTAAATGTCC
AGAAAATACGTAAGGCTAAAAATCAATAGATAAGGATGAAGAATTTGCCGTTCTAGT
CCACAGAGTTCCAAATACACAGTTGTTAAGAGCCTGATTGATAACTCTTCAGAAATTGAG
GACGAGGATCAAAATTTGGAGAACAGTTCTCAAAAAGAAAACGTGTTAAATGTGATTCT
CTAAAGGAAGAGTGCATTCCTGAACATATGGTAAGAGAAAAGTAAAATAATGGAAGCCGAA
AGCCAAAAGGCTACCCGGGAATGTGAGAAATCAGCCCTCACCCCTGGATTCTCAGATAAT
GCGATCATGTTATTCTCACCAGATTTCACTCTTAGGAATACATTAAGTCTACTTCAGAA
GACAGTCTGTAAAGCAAGAGTGTATCAAAGAAGTGGTTGAAAACGTGAGGCATGTCAT
TGTGAAGAAGTAAAAATGACTGTTGCTTCAGAAGCTAAAATACAGCTGTCAGATTCAGAG
GCAAAAATCTCATAGTTCTGCAGATGATGCTTCTGCATGGAGTAAACATCCAAGAGGCTCCT
CTGCAGGATGACAGTTGCTTAAACAATGATATCCCTCACAGCATTCTTTGGAGCAGGGG
TCAAGCTGCAATGGTCTGGTCAAACAACCGGTCATCCTTACTACCTTCGGAGTTTCCTT
GTGGTGTGAAAACCGTACTTGAGAATGAAGATGATATGTTGCTCTTTGATGAGCAGGAG
AAGGGAATTGTAATAAATTTTATCAGTTATCAGCTACTGGTCAGAAGTTATATGTAAGG
CTCTTTCAACGTAATTAAGCTGGATTAAGATGACCAAATTAGAGTATGAAGAGATTGCC
TTAGACTTAACACCTGTGATTGAAGAATTGACGAATGCAGGCTTTCTACAGACAGAATCT
GAGTTGCAAGAATCTCTGAAGTGTGAACTCCTTTCTGCTCCTGAACTAAAATCCCTA
GCCAAGACCTTCACTTGGTGAATCCCAATGGACAGAAACAGCAGCTGGTGGACGCCTTT

```



[View online »](#)

```

CTCAAATTGGCCAAACAGCGTTCAGTCTGCACTTGGGGCAAGAATAAGCCTGGAATTGGT
GCAGTGATTTTAAAAAGAGCCAAAGCCTTGGCTGGACAGTCAGTACGAATCTGTAAGGC
CCCAGGGCTGTGTTTTCCCGCATCTTGCTACTGTTTTCGTTGACCGACTCAATGGAAGAT
GAAGACGCCGCTTGTGGAGGTGACGGACAGCTTCAACAGTCCTGTTGGTCAACCTCGGC
CGAATGGAGTTTCTAGTTACACCATCAATCGGAAAACCCACATCTTCCAAGACAGAGAT
GATCTTATCAGATATGCAGCAGCCACGCACATGCTGAGTGACATTTCTCCGCAATGGCC
AATGGGAACGGGAAGAAGCTAAGGAGCTCGCTCAGTGTGCAAAAAGGGATTGGAACAGA
CTGAAAAACACCTTCTCTGAGATGCCACGAAGATTTACCACTTCTCCTGCGGTGTTTC
ACTGTTGGGTGGATTTATACAAGGATTTTGTCTCGGTTTGTGAAATACTGCAGAGACTT
CACATGTATGAGGAAGCCGTGAGAGAACTTGAAGCCTTTTGTCTCAGAGAATTTATTGT
CCTGACAGCAGAGGCCGATGGTGGGATCGACTGGCCCTTAATTTACACCAGCACTTGAAG
CGCCTGGAACCGACTATCAAGTGCATCACAGAGGGGCTGGCGGATCCGGAAGTCAGAACG
GGACACCGCTTTCAGTGTATCAGCGAGCCGTGCGCTGCGAGAGTCTCCGAGCTGTAAA
AAGTTCAAGCACCTTCCAGCAGCTCCAGAAAATGGCTGTGCAAGATGTGAAACACGTG
ACCATCACAGGCAGGCTGTGCCACAGCGTGGGATGTGCAAGTCTGTGTTTGTGATGGAG
GCCGGGAGGCCGCTGACCCACCACGGTCTGTGCTCTGTGGAGGAGCTGGCACTGGCC
CATTACAGACGCAGCGGTTTTGACCAGGGGATTCATGGCGAAGGGTCCACCTTCAGCACC
CTGTATGGCCTCCTCCTGTGGGACATCATCTTCATGGATGGGATCCGGATGTCTTCAGA
AACGCCTGTGAGGCATTCCCCTGGACTTGTGCACAGACAGCTTCTTACAAGCAGACGC
CCAGCCCTTGAGGCCAGGCTGCAGCTGATTCATGATGCCCCGAGGAGAGCCTGCGGGCC
TGGGTGGCAGCCACGTGGCATGAGCAGGAAGGCAGAGTGGCTTCCCTTGTGAGCTGGGAT
CGCTTACAGTCTTTCAGCAAGCTCAGGATCTTGTCTCCTGCCTGGGGGGCCTGTGCTC
AGTGGTGTGTGCAGGCACCTGGCTGACTTTGACACTGTGCGAGGGGGCCTCCCGGAC
CTGGTGGTGTGGAACCTCCAGAGCCGTCACCTTAAAGCTGGTGGAAAGTTAAAGGCCCAAT
GATCGTCTTTCACATAAGCAGATGATCTGGCTGGCTGAACTGCAGAAGCTGGGGGCTGAA
GTAGAAGTCTGCCACGTGGTTGCAGTTGGAGCTAAGAGCCAAAGCCTTAGCTAA
    
```

Clone variation with respect to NM\_014967.4  
 557 c=>a;698 g=>a;3015 t=>c

**5' Read Nucleotide Sequence:**

```

>OriGene 5' read for NM_014967 unedited
NGGTCGACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACCANAATGTCTGA
GACGAATAACATGAGGTCATATAGAATCCCACTTTTGGTGATTTCAAGTCAAGAAAGTAA
AAGTAAACCATTGCTATCTTTCACCTTAAATATCCTGTGTTTTATTGCTCAGAACATCCA
GTTTTTCTAATACTCATGATGTCAGAAGGGAAACCTCCTGACAAAAAAGGCCTCGTAGA
AGCTTATCAATCAGCAAGAATAAGAAAAAAGCATCTAATTCTATTATTTTCGTGTTTTAAC
AATGCACCACCTGCTAAACTTGCCTGCCCGTTTGCAGTAAAATGGTGCCTAGATATGAC
TTAAACCGGCACCTTGATGAAATGTGTGCTAACAAATGACTTCGTTCAAGTGGATCCAGGG
CAGGTTGGCTTAATAAATTCAAATGTGTCTATGGTAGATTTAACCAAGTGTACCTTAGAA
GATGTAACACCTAAGAAGTCACCACCACCAAGACAAATTTAACCCCTGGCCAAAGTGAT
TCAGCAAAAAGGGAAAGTAAAGCAGAAGATCAGTCCCTACTTTAAAAGTAATGATGTGGTG
TGCAAAAATCAAGATGAGCTGAGAAAATCGTAGTGTGAAAGTCAATTTGTTTGGGAAGCCTA
GCATCTAAATGTCCAGAAAATACGTAAGGCTAAAAATCAATAGATAAGGATGAAGAA
TTTGCCCGGTTCTAGTCCACAGAGTTCCAAATACACAGTTGTTAAGAGCCTGATTGATAA
CTCTTCAGAAAATTGAGACGANGATCAAAATNNTGGAGAACAGTTCTCANAAGAAAAACGTG
TTAAATGTGATTTCTAAAGGAGAGTGCATTNCCTGACATATGGNTAGAGAAAAGTAAAT
ATGGAAGCCGAAG
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_014967 unedited CCCCTTACTCTGCACCGCGCCGCAATCTACACTTTTTTTTTTTTATTCTGCACAATT TACTTATTTATTTTGCAGGAATTTGCTATAAGCAAAAACATCCAATTGGGTGATGAGAAG GGCTTAAAATCCCCTCTGTTTGGGACTGGTCTCTCCAGTTTACAGCAAAGGATCGCACC CTTTTCCATAACCCCTTCTACATTGAAAGAGCACACCTTGTCTACAGAATGGCTCCGTG AAGTCTTTTAAACGACAAAGGTAATCACAGCTAACAAAACGTGATGCTGGCTCACACG TAACCAAACACCTCTTTTTCAGAACAGAGCGTTAAAAGTAAAGGCACCTCCAAGAGTA AACTGCTAATGCGGATTCCTGAGGGGTATTCCCTTTTTAACTCAAATGACTGTATCCC AACTTTCTTCTGGCGTCTGAGGCCACAAAGTCTCAGTACCTGACAGTGGGCCATTGC AGCTTTGAGCCTGTCAGCCTGACCTACTACACCCTCATTTATCCATTTCTTGCTGATCCA ACCCGACACTGCGGAAGGAATGCCGCTGCCTGTGACGTACCATGGCCTCCTGACTGC AATCTTTTGGACCTAACAACTTCTTGTTCGCCCTTCTACCCATTCTCACCTCACTCCT GGTCTCTCTCCGCCCAACACTCGCTACATCCCTCCCGGTACCTTACCACCAACCC AACATTTGGTCTCTCCCTGCATTTGATACCATCCGCAACATGACCTTTTACCATTA ACCAGACACAGTTTCTTCTCCTACCCACACCCTACCCCTCCCTCTACTCACTCTACT GGTAACAGGACCTTCTCTCCCTCCACAGCTTTCAACTACCCTCCCTTATCAT GTCTCCCTCTTACTTCTCTCTCTGCCCTCATACT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014967
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_014967.3</a> , <a href="#">NP_055782.2</a>
<b>RefSeq Size:</b>	4835 bp
<b>RefSeq ORF:</b>	3054 bp
<b>Locus ID:</b>	22909
<b>UniProt ID:</b>	<a href="#">Q9Y2M0</a>
<b>Cytogenetics:</b>	15q13.3
<b>Domains:</b>	ZnF_Rad18

**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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a).