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Product datasheet for SC327578

FAN1 (NM_001146094) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	FAN1
Synonyms:	hFAN1; KIAA1018; KMIN; MTMR15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC327578 representing NM_001146094.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGTCAGAAGGGAAACCTCCTGACAAAAAAAGGCCTCGTAGAAGCTTATCAATCAGCAAGAATAAG
AAAAAAGCATCTAATTCTATTATTTCGTGTTTTAACAATGCACCACCTGCTAAACTTGCCTGCCCCGTT
TGCAGTAAAATGGTGCCTAGATATGACTTAAACCGGCACCTTGATGAAATGTGTGCTAACAATGACTTC
GTTCAAGTGGATCCAGGGCAGGTTGGCTTAATAAATTCAAATGTGTCTATGGTAGATTTAACCAGTGTT
ACCTTAGAAGATGTAACACCTAAGAAGTCACCACCACCAAAGACAAATTTAACCCCTGGCCAAAGTGAT
TCAGCAAAAAGGGAAGTAAAGCAGAAGATCAGTCCCTACTTTAAAAGTAATGATGTGGTGTGCAAAAAT
CAAGATGAGCTGAGAAATCGTAGTGTGAAAGTCATTTGTTTGGGAAGCCTAGCATCTAAATTGTCCAGA
AAATACGTAAAGGCTAAAAAATCAATAGATAAGGATGAAGAATTTGCCGGTTCTAGTCCACAGAGTTCC
AAATCCACAGTTGTTAAGAGCCTGATTGATAACTCTTCAGAAATTGAGGACGAGGATCAAATTTTGGAG
AACAGTTCTCAAAAAGAAAACGTGTTTAAATGTGATTCTCTAAAGGAAGAGTGCATTCCTGAACATATG
GTAAGAGGAAGTAAAATAATGGAAGCCGAAAGCCAAAAGGCTACCCGGGAATGTGAGAAATCAGCCCTC
ACCCCTGGATTCTCAGATAATGCGATCATGTTATTCTCACCAGATTTCACTCTTAGGAATACATTAAAG
TCTACTTCAGAAGACAGTCTTGTAAAGCAAGAGTGTATCAAAGAAGTGGTTGAAAAACGTGAGGCATGT
CATTGTGAAGAAGTAAAAATGACTGTTGCTTCAGAAGCTAAAATACAGCTGTCAGATTCAGAGGCAAAA
TCTCATAGTTCTGCAGATGATGCTTCTGCATGGAGTAACATCCAAGAGGCTCCTCTGCAGGATGACAGT
TGCTTAAACAATGATATCCCTCACAGCATTCCTTTGGAGCAGGGGTCAAGCTGCAATGGTCCTGGTCAA
ACAACCGGTCATCCTTACTACCTTCGGAGTTTCCTTGTGGTGCTGAAAACCGTACTTGAGAATGAAGAT
GATATGTTGCTCTTTGATGAGCAGGAGAAGGGAATTGTAACTAAATTTTATCAGTTATCAGCTACTGGT
CAGAAGTTATATGTAAGGCTCTTTCAACGTAAATTAAGCTGGATTAAGATGACCAAATTAGAGTATGAA
GAGATTGCCTTAGACTTAACACCTGTGATTGAAGAATTGACGAATGCAGGCTTTCTACAGACAGAATCT
GAGTTGCAAGAACTCTCTGAAGTGCTTGAACTCCTTTCTGCTCCTGAACTAAAATCCCTAGCCAAGACC
TTCCACTTGGTGAATCCCAATGGACAGAAACAGCAGCTGGTGGACGCCTTTCTCAAATTGGCCAAACAG
CGTTCAGTCTGCACTTGGGGCAAGAATAAGCCTGGAATTGGTGCAGTGATTTTAAAAAGGTTTTGTTGG
CTATTGTTACAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001146094

Insert Size: 1602 bp

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA

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_001146094.1
RefSeq Size:	2851 bp
RefSeq ORF:	1602 bp
Locus ID:	22909
UniProt ID:	Q9Y2M0
Cytogenetics:	15q13.3
MW:	59.5 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] Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (b) has a distinct C-terminus and is shorter than isoform a. Variants 2, 3 and 4 encode the same isoform (b).