OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC307795

FAM111A (NM_198847) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM111A (NM_198847) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM111A
Synonyms:	GCLEB; KCS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC307795 representing NM_198847.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCTGTAAGAAGCAGAGGTCACGGAAGCACTCAGTCAATGAAAAATGTAATATGAAAATCGAGCAC
TATTTTTCTCCGGTCTCTAAAGAGCAACAGAATAATTGCAGTACTTCTCTAATGAGGATGGAGTCTAGA
GGAGACCCAAGAGCCACAACTAATACCCAGGCTCAAAGATTCCATTCACCTAAGAAAAATCCAGAAGAC
CAGACCATGCCCCAAAATAGGACAATATATGTTACCTTGAAGGTAAACCACAGGAGAAACCAAGATATG
AAACTTAAGCTCACACATAGTGAGAATAGTAGCTTATATATGGCTCTCAACACTCTCCAGGCTGTCAGA
AAAGAGATAGAAACTCACCAAGGCCAAGAAATGCTTGTGCGTGGCACAGAAGGAATCAAAGAGTACATA
AACCTTGGAATGCCCCTCAGTTGTTTCCCTGAAGGTGGCCAGGTGGTCATTACATTTTCCCAAAGTAAA
AGTAAGCAGAAGGAAGATAACCACATATTTGGCAGGCAGGACAAAGCATCGACTGAATGTGTCAAATTT
TACATTCATGCAATTGGAATTGGGAAGTGTAAAAGAAGGATTGTTAAATGTGGGAAGCTTCACAAAAAG
GGGCGCAAACTCTGTGTTTATGCTTTCAAAGGAGAAACCATCAAGGATGCACTGTGCAAGGATGGCAGA
TTTCTTTCCTTTCTGGAGAATGATGATTGGAAACTCATTGAAAACAATGACACCATTTTAGAAAGCACC
CAGCCAGTTGATGAATTAGAAGGCAGATACTTTCAGGTTGAGGTTGAGAAAAGAATGGTCCCCAGTGCA
GCAGCTTCTCAGAATCCTGAGTCAGAGAAAAGAAACACCTGTGTGTTGAGAGAACAAATCGTGGCTCAG
TACCCCAGTTTGAAAAGAGAAAGTGAAAAAATCATTGAAAACTTCAAGAAAAAAATGAAAGTAAAAAAT
GGGGAAACATTATTTGAATTGCATAGAACAACGTTTGGGAAAGTAACAAAAAATTCTTCTTCGATTAAA
GTAGTGAAACTTCTTGTACGTCTCAGTGACTCAGTTGGGTACTTATTCTGGGACAGTGCAACTACGGGT
TACGCCACCTGCTTTGTTTTTAAAGGATTGTTCATTTTAACTTGTCGGCATGTAATAGATAGCATTGTG
GGAGACGGAATAGAGCCAAGTAAGTGGGCAACCATAATTGGTCAATGTGTAAGGGTGACATTTGGTTAT
GAAGAGCTAAAAGACAAGGAAACAAACTACTTTTTTGTTGAACCTTGGTTTGAGATACATAATGAAGAG
CTTGACTATGCTGTCCTGAAACTGAAGGAAAATGGACAACAAGTACCTATGGAACTATATAATGGAATT
ACTCCTGTGCCACTTAGTGGGTTGATACATATTATTGGCCATCCATATGGAGAAAAAAAGCAGATTGAT
GCTTGTGCTGTGATCCCTCAGGGTCAGCGAGCAAAGAAATGTCAGGAACGTGTTCAGTCTAAAAAAGCA
GAAAGTCCAGAGTATGTCCATATGTATACTCAAAGAAGTTTCCAGAAAATAGTTCACAACCCTGATGTG
ATTACCTATGACACTGAATTTTTCTTTGGGGCTTCCGGCTCCCCTGTGTTTGATTCAAAAGGTTCATTG
GTGGCCATGCATGCTGCTGGCTTTGCTTATACTTACCAAAATGAGACTCGTAGTATCATTGAGTTTGGC
TCTACCATGGAATCCATCCTCCTTGATATTAAGCAAAGACATAAACCATGGTATGAAGAAGTATTTGTA
AATCAGCAGGATGTAGAAATGATGAGTGATGAGGACTTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_198847

Insert Size: 1836 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.
RefSeq:	NM_198847.2
RefSeq Size:	3570 bp
RefSeq ORF:	1836 bp
Locus ID:	63901
UniProt ID:	Q96PZ2
Cytogenetics:	11q12.1
MW:	70.2 kDa
Gene Summary:	The protein encoded by this gene is cell-cycle regulated, and has nuclear localization. The C-terminal half of the protein shares homology with trypsin-like peptidases and it contains a PCNA-interacting peptide (PIP) box, that is necessary for its co-localization with proliferating cell nuclear antigen (PCNA). Reduced expression of this gene resulted in DNA replication defects, consistent with the demonstrated role for this gene in Simian Virus 40 (SV40) viral replication. Mutations in this gene have been associated with Kenny-Caffey syndrome (KCS) type 2 and the more severe osteocraniostenosis (OCS, also known as Gracile Bone Dysplasia), both characterized by short stature, hypoparathyroidism, bone development abnormalities, and hypocalcemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 6. All variants (1-8) encode the same protein.