

## Product datasheet for **SC325231**

### **FAM111A (NM\_001142520) Human Untagged Clone**

#### **Product data:**

|               |   |
|---------------|---|
| Product Type: | Expression Plasmids                         |
| Product Name: | FAM111A (NM_001142520) Human Untagged Clone |
| Tag:          | Tag Free                                    |
| Symbol:       | FAM111A                                     |
| Synonyms:     | GCLEB; KCS2                                 |
| Vector:       | <u>pCMV6 series</u>                         |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001142520, the custom clone sequence may differ by one or more nucleotides

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ATGAGCTGTAAGAAGCAGAGGTCACGGAAGCACTCAGTCAATGAAAAATGTAATATGAAA
ATCGAGCACTATTTTTCTCCGGTCTCTAAAGAGCAACAGAATAATTGCAGTACTTCTCTA
ATGAGGATGGAGTCTAGAGGAGACCCAAGAGCCACAATAATACCCAGGCTCAAAGATTC
CATTACCTAAGAAAAATCCAGAAGACCAGACCATGCCCAAAAATAGGACAATATATGTT
ACCTTGAAGTAAACCACAGGAGAAACCAAGATATGAAACTTAAGCTCACACATAGTGAG
AATAGTAGCTTATATATGGCTCTCAACACTCTCCAGGCTGTAGAAAAGAGATAGAAAAC
CACCAAGGCCAAGAAATGCTTGTGCGTGGCACAGAAGGAATCAAAGAGTACATAAACCTT
GGAATGCCCTCAGTTGTTTCCCTGAAGGTGGCCAGGTGGTCATTACATTTTCCCAAAGT
AAAAGTAAAGCAGAAGGAAGATAACCACATATTTGGCAGGCAGGACAAAGCATCGACTGAA
TGTGTCAAATTTTACATTCATGCAATTGGAATTGGGAAGTGTAAAAGAAGGATTGTTAA
TGTGGGAAGCTTCACAAAAAGGGCGCAAACCTGTGTTTATGCTTTCAAAGGAGAAACC
ATCAAGGATGCACTGTGCAAGGATGGCAGATTTCTTTCTTTCTGGAGAATGATGATTGG
AAACTCATTGAAAACAATGACACCATTTTAGAAAGCACCCAGCCAGTTGATGAATTAGAA
GGCAGATACTTTTCAAGTTGAGGTTGAGAAAAGAATGGTCCCAGTGCAGCAGCTTCTCAG
AATCCTGAGTCAGAGAAAAGAAACACCTGTGTGTTGAGAGAACAATCGTGGCTCAGTAC
CCCAGTTTGAAGAGAAAGTGAAGAAAATCATTGAAAACCTCAAGAAAAAATGAAAAGTA
AAAAATGGGGAACATTATTTGAATTGCATAGAACACGTTTGGGAAAGTAAACAAAAAT
TCTTCTTCGATTAAGTAGTGAACCTTCTTGTACGTCTCAGTGACTCAGTTGGGACTTA
TTCTGGGACAGTGCAACTACGGGTTACGCCACCTGCTTTGTTTTAAAGGATTGTTTATT
TTAACTTGTGCGCATGTAATAGATAGCATTGTGGGAGACGGAATAGAGCCAAGTAAGTGG
GCAACCAATAATTGGTCAATGTGTAAGGGTGACATTTGGTTATGAAGAGCTAAAAGACAAG
GAAACAAACTACTTTTTTGTGAACTTGGTTTGTAGATACATAATGAAGAGCTTGACTAT
GCTGTCTGAAACTGAAGGAAAATGGACAACAAGTACCTATGGAATATATAATGGAATT
ACTCCTGTGCCACTTAGTGGGTTGATACATATTATTGGCCATCCATATGGAGAAAAAAG
CAGATTGATGCTTGTGCTGTGATCCCTCAGGGTCAGCGAGCAAAGAAATGTCAGGAACGT
GTTCAGTCTAAAAAGCAGAAAGTCCAGAGTATGTCCATATGTACTCAAAGAAGTTTC
CAGAAAAAGTTCACAACCCTGATGTGATTACCTATGACTGAAATTTTCTTTGGGGCT
TCCGGCTCCCCTGTGTTTGAATCAAAGGTTTATTGGTGGCCATGCATGCTGCTGGCTTT
GCTTATACTTACCAAAAATGAGACTCGTAGTATCATTGAGTTTGGCTCTACCATGGATCC
ATCCTCCTTGATTAAGCAAAGACATAAACCATGGTATGAAGAAGTATTTGTAATCAG
CAGGATGTAGAAATGATGAGTATGAGGACTTG

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001142520
- 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\\_001142520.1](#), [NP\\_001135992.1](#)

**RefSeq Size:** 3799 bp

**RefSeq ORF:** 1836 bp

**Locus ID:** 63901

**UniProt ID:** [Q96PZ2](#)

**Cytogenetics:** 11q12.1

**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 (3) differs in the 5' UTR compared to variant 6. All variants (1-8) encode the same protein.