

Product datasheet for **RG227082**

FAM111A (NM_001142520) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM111A (NM_001142520) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM111A
Synonyms:	GCLEB; KCS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG227082 representing NM_001142520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGCTGTAAGAAGCAGAGGTCACGGAAGCACTCAGTCAATGAAAAATGTAATATGAAAAATCGAGCACT
 ATTTTTCTCCGGTCTCTAAAGAGCAACAGAATAATTGCAGTACTTCTCTAATGAGGATGGAGTCTAGAGG
 AGACCCAAGAGCCACAATAATACCCAGGCTCAAAGATTCATTACCTAAGAAAAATCCAGAAGACCAG
 ACCATGCCCAAAATAGGACAATATATGTTACCTTGAAGGTAACCACAGGAGAAACCAAGATATGAAAC
 TTAAGCTCTCACATAGTGAGAATAGTAGCTTATATATGGCTCTCAACACTCTCCAGGCTGTCAGAAAAA
 GATAGAAACTACCAAGGCCAAGAAATGCTTGTGCGTGGCAGAGGAATCAAAGAGTACATAAACCTT
 GGAATGCCCTCAGTTGTTCCCTGAAGGTGGCCAGGTGGTCATTACATTTCCCAAAGTAAAAGTAAGC
 AGAAGGAAGATAACCACATATTTGGCAGGCAGGACAAAGCATCGACTGAATGTGTCAAATTTTACATTCA
 TGCAATTGGAATTGGGAAGTGTAAAAGAAGGATTGTTAAATGTGGGAAGCTTCAAAAAAGGGCGCAA
 CTCTGTGTTTATGCTTTCAAAGGAGAAACCATCAAGGATGCACTGTGCAAGGATGGCAGATTTCTTTCT
 TTCTGGAGAATGATGATTGAAAACCTATTGAAAACAATGACACCATTTTGAAGACCCAGCCAGTTGA
 TGAATTAGAAGGCAGATACTTTCAGGTTGAGGTTGAGAAAAAAGTGGTCCCCAGTGCAGCAGCTTCTCAG
 AATCCTGAGTCAGAGAAAAAGAACACCTGTGTGTTGAGAGAACAAATCGTGGCTCAGTACCCAGTTTGA
 AAAGAGAAAGTAAAAAATCATTGAAAACCTCAAGAAAAAATGAAAGTAAAAATGGGGAAACATTATT
 TGAATTGCATAGAACAACGTTTGGGAAAGTAACAAAAAATCTTCTTTCGATTAAGTGTGAACTTCTT
 GTACGCTCAGTGACTCAGTTGGTACTTATTCTGGGACAGTCAACTACGGGTTACGCCACCTGCTTTG
 TTTTAAAGGATTGTTTCAATTTAACTTGTCCGCTGTAATAGATAGCATTGTGGGAGACGGAATAGAGCC
 AAGTAAGTGGCAACCATAATTGGTCAATGTGTAAAGGTTGACATTTGGTTATGAAGAGCTAAAAGACAAG
 GAAACAACTACTTTTTGTTGAACCTTGGTTGAGATACATAATGAAGACTTGACTATGCTGTCTGA
 AACTGAAGGAAAAATGGACAACAAGTACCTATGGAACATATAATGGAATTACTCTGTGCCACTTAGTGG
 GTTGATACATATTATTGGCCATCCATATGGAGAAAAAAGCAGATTGATGCTTGTGCTGTGATCCCTCAG
 GGTGAGCAGCAAAAGAAATGTCAGGAACGTGTTCACTAAAAAAGCAGAAAGTCCAGAGTATGTCCATA
 TGTATACTCAAAGAAGTTCCAGAAAAATAGTTCACAACCTGATGTGATTACCTATGACTGAATTTTT
 CTTTGGGGCTCCGGCTCCCTGTGTTGATTCAAAGGTTTATTGGTGGCCATGCATGCTGCTGGCTTT
 GCTTATACTTACCAAAATGAGACTCGTAGTATCATTGAGTTTGGCTTACCATGGATCCATCCTCCTTG
 ATATTAAGCAAAGACATAAACCATGGTATGAAGAAGTATTTGTAATCAGCAGGATGTAGAAATGATGAG
 TGATGAGGACTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227082 representing NM_001142520
 Red=Cloning site Green=Tags(s)

MSCCKQSRKHSVNEKCNMKIEHYFSPVSKEQQNNCSTSLMRMESRGDPRATTNTQAQRFHSPKKNPEDQ
 TMPQNRITIVYVTLKVNHRNQMMLKLSHSENSLYMALNLTQAVRKEIETHQGEMLVRGTEGIKEYINL
 GMPLSCFPEGQVITFSQSKSKQKEDNHIFGRQDKASTEVCVFIHAIGIGKCKRRIKCGKLVHKKGRK
 LCVYAFKGETIKDALCKDGRFLSFLNDDWKL IENNDTILESTQPVDELEGRYFQVEVEKRMVPSAAASQ
 NPSEKRNLCVLRQIVAQYPSLKRESEKIIENFKKKMKVKNGETLFELHRTTFGKVTKNSSIKVVKLL
 VRLSDSVGYLFWDSATTGYATCFVFKGLFILTCHRHVIDSIVGDGIEPSKWATIIGQCVRVTFGYEELKDK
 ETNYFFVEPWFEIHNEELDYAVLKLKENGQQVPMELYNGITPVPLSGLIHIIGHYPYGEKQIDACAVIPQ
 GQRAKKQERVQSKKAESPEYVHMYTQRSFKIVHNPVDIITYDTEFFFGASGSPVFDKSLVAMHAAGF
 AYTYQNETRSIIIEFGSTMESILLDIKQRHKPWYEEVFVNQDQDVENMSDEDL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001142520

ORF Size: 1833 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_001142520.1](#), [NP_001135992.1](#)

RefSeq Size: 3799 bp

RefSeq ORF: 1836 bp

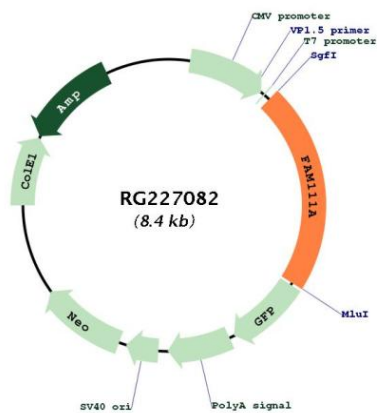
Locus ID: 63901

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]

Product images:



Circular map for RG227082