

Product datasheet for **RG226690**

FAM111B (NM_001142704) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM111B (NM_001142704) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM111B
Synonyms:	CANP; POIKTMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG226690 representing NM_001142704
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATCCATGAAGACTGAAGAAAACAAGTCATTTAGCGCTATGGAAGATGACCAGAGGACTAGACCTG
 AAGTTTCAAAGGATACTGTCATGAAGCAGACACATGCTGACACACCTGTTGATCATTGTCTATCTGGCAT
 AAGAAAGTGTAGCAGCACCTTTAAGCTTAAAGTGAAGTCAACAAGCATGAAACAGCCCTTGAAATGCAG
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 TGTTTAAATGCATCTGGCAAAATGGTTGCTTTCATACCTTTGGGCTTTTTATCAACGAGGATTTAATGT
 GCATGCCCTTATTGAATTTGGTTATTCTATGGATTCTATTCTTTGTGATATTAAGACAAATGAGAGC
 TTGTATAAATCATTAAATGATGAGAACTTGAGACCTACGATGAAGAGAAAGGTAACAAGAGTCATCAC
 TTCAAGATCATCAGATTGAACCCATGGAATGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

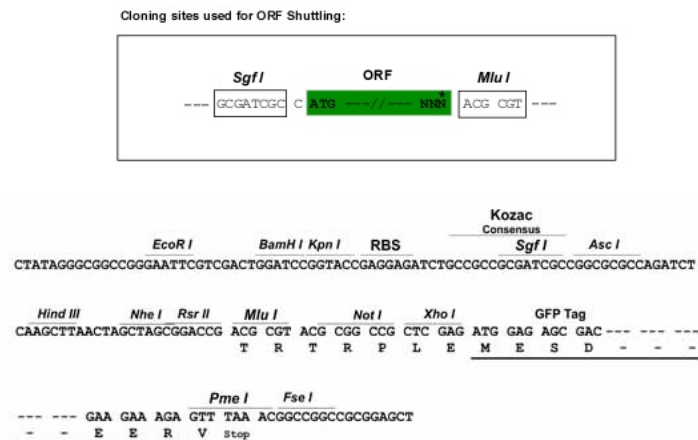
Protein Sequence: >RG226690 representing NM_001142704
 Red=Cloning site Green=Tags(s)

MNSMKTEENKSFSAEEDDQRTPEVSKDVTVMKQTHADTPVDHCLSGIRKCSSTFKLKSEVNHETALEMQ
 NPNLNNKECCFTFTLNGNSRKLDRSVFTAYGKPSESIYSALSANDYFSEIKNQFNKNIIVYEETIDGH
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 LCIYALKGETIEGALCKDGRFRSDIGFEWKLKEGHHKIYQKSMVDEVSGKVLMDISKKKALQKQDIH
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 CSLPRKYRQINSQVRRRPHLGRRYAINLDVQKEAINLLKNYQTLNEAIMHQYPNFKEEAQWVRKYFREEQ
 KRMNLSPAKQFNIIYKDFGKMTANSVSVATCEQLTYYSKSVGFMQWNNNGTGNATCFVFNNGYIFTCRH
 VVHLMVGKNTHPSLWPDIIISCAKVTFTYTEFCPTPDNWFSEIPLWKVSNENLDYAILKLKENGNAFPFG
 LWRQISQPSTGLIYLIGHPEGQIKKIDGCTVIPLNERLKKYPNDCQDGLVDLYDTTNNVCMFTQSRSL
 SEVWNHTLSYDTCFSDGSSGSPVFNASGKLVALHTFGLFYQGRFNVHALIEFGYSMDSILCDIKKTNES
 LYKSLNDEKLETYDEEKGKQESSLQDHQIEPMEC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142704

ORF Size: 2205 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_001142704.1](#), [NP_001136176.1](#)

RefSeq Size: 3362 bp

RefSeq ORF: 2115 bp

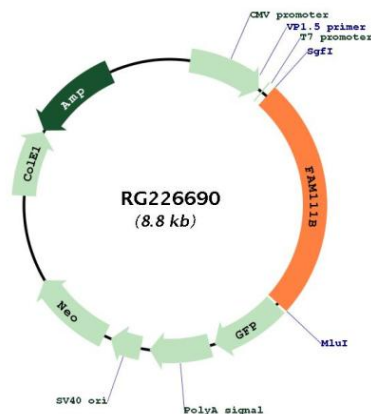
Locus ID: 374393

UniProt ID: [Q6S193](#)

Cytogenetics: 11q12.1

Gene Summary: This gene encodes a protein with a trypsin-like cysteine/serine peptidase domain in the C-terminus. Mutations in this gene are associated with an autosomal dominant form of hereditary fibrosing poikiloderma (HFP). Affected individuals display mottled pigmentation, telangiectasia, epidermal atrophy, tendon contractures, and progressive pulmonary fibrosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. A paralog of this gene which also has a trypsin-like peptidase domain, FAM111A, is located only 16 kb from this gene on human chromosome 11q12.1. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RG226690