

## Product datasheet for **RC226210**

### **FAM115C (TCAF2) (NM\_001130025) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FAM115C (TCAF2) (NM_001130025) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM115C
Synonyms:	FAM115C; FAM139A; GATD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC226210 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACCATTGCTGCTGCTGCGTTTGGAGCCCTCATGGATGGAGTGACATGCTGGGATGTCCCCAGAG  
 GCCCATCCCCAGTGAACCTCTTATTGGAGAAGCCGCTTCCCCGTGATGGTGAATGACAAGGGCCA  
 GGTGCTCATTGCTGCCTCCTCTACGGCCGAGGCCGCTCGTGGTTGTGTCCCATGAGGGCTACCTGTCCG  
 CATACTGGCTTGCTCCATTTCTCTCAATGCAGTGAGCTGGCTCTGTCCCTGTCTGGGCTCCCGTGG  
 GAGTGCATCCATCCCTGGCACCTCTAGTAAACATCCTACAGGATGCTGGGCTTGAGGCACAGGTCAAGCC  
 AGAACCAGGAGAGCCCTAGGGTTTACTGTATCAATGCCTACAATGACACCTTGACTGCAACGCTGATC  
 CAGTTTGTGAAACATGGAGGGGGCTTGTAAATCGGGGGCCAGGCCTGGTACTGGGCCAGCCAGCACGGCC  
 CTGACAAGGTGCTCTCCAGTTCCTGGGAACAAGGTGACAAGTGTAGCCGGAGTGTACTCACTGACAC  
 CTATGGGGACAGAGACCGTTCAAGGTCTCTAAGAAGGTGCCAAGATCCCACTCCATGTCAGGTATGGG  
 GAGGATGTCAGGCAGGACCAGCAGCAGCTCTGGAGGGGATCTCAGAGCTGGACATCAGGACAGGGGGAG  
 TCCCTCACAGCTGCTTGTACATGGAGCCCTGGCCTTCCCTCTGGGGCTGGATGCCTCACTCAACTGCTT  
 CCTGGCGGCTGCTCACTATGGCCGGGGCCGGTGGTCTGGCTGCCACGAGTGCCTGCTGTGTCTCC  
 AAGATGGGGCCCTTCTTGCTCAATGCGGTGCGCTGGCTGGCCAGAGGCCAGACAGGCAAAGTTGGGGTGA  
 ACACAAATCTAAAAGATCTGTGCTCTCTCTATCGGAGCATGGCTGCAATGCAGCTGGAGCCCATCT  
 GAACAGCGACTTGTGTCTACTGCTGCAAGGCGTACAGTGACAAGGAGGCTAAGCAGCTGCAGGAGTTT  
 GTGGCTGAGGGTGGGGGGCTGCTGATTGGGGGCCAGGCCTGGTGGTGGGCTCCAGAACCCTGGCCACT  
 CCCCCTGGCTGGCTTCCCTGGTAAACATCATCTCAACTGCTTTGGCCTCAGCATCTGCTCAGACTCT  
 CAAGCAGGCTGCTTCCCGTTCCACCCCTGAGATGAGAAGTACCCTTCCGCAAGGGCCTCTCTCAA  
 TTCCAGGCTATACTGAACCACGAGAATGGAACTTGGAAAAGAGCTGTCTGGCAAAGTTGAGAGTTGATG  
 GTGCAGCCTTCTACAGATTCTGCGGAGGGGGTCCCTGCTTACATATCCCTGCACAGGCTCCTGAGGAA  
 GATGCTACGAGGGTCTGGCCTCCAGCTGTGAGCCGGGAAAATCCAGTTGCCAGTGACTCTATGAGGCT  
 GCGGTGCTCTCCCTGGCCACTGGCTGGCTCACTCTGAACTGACTGCTCCAGCTGGCCAGGGGCTTG  
 GCACCTGGACCTGCTCTCCAGTTTGTACCCTCAAACACCCCATCACCGTGGAGATCAATGGAATCAA  
 CCCAGGCAACAATGATTGCTGGGTGAGTACCGGCTCTACCTCCTGGAAGGACAAAATGCAGAAGTCTCA  
 CTGTCTGAAGCTGCTGCCTCTGCTGGCCTGAGGGTACAGATAGGCTGCCACACCGATGACCTTACCAAGG  
 CCAGGAAGCTATCTCGAGCCCCGTGGTACTACCAATGCTGGATGGACAGGACTGAGCCGTGAGTCTC  
 CTGCTCTGGGGCGGCCTCCTCTACGTCATCGTGCCCAAGGGCAGCCAAC TAGGCCTGTGCCTGTCACT  
 ATCAGGGGAGCTGTGCCTGCCCCATACTACAAGCTGGTAAGACATCGCTGGAGGAGTGGAAAGGGCAGA  
 TGCAGGAGAACCTGGCTCCCTGGGAGAGCTGGCCACGGACAACATCATCCTGACAGTGCCAACCAAAA  
 CCTTCAGGCCCTGAAGGACCCCGAGCCTGTGCTCCGCCTCTGGGATGAGATGATGCAGGCTGTGGCCAGG  
 CTGGCGGCTGAGCCCTTCCCTTCCGCCGCTCTGAGAGGATTGTGGCTGATGTGCAGATCTCAGCTGGCT  
 GGATGCATT CAGGATACCCATCATGTGCCACCTGGAGTCTGTGAAGGAGATCATCAATGAGATGGACAT  
 GAGGAGCAGGGGTGTGTGGGGCCCATCCATGAGCTGGGCCACAACCAACAGCGGCATGGATGGAGTTT  
 CCCCCACACTACTGAGGCCACCTGTAACCTTTGGTCACTACGTGCATGAAACAGTCTGGGGATCC  
 CCAGGGCTCAGGCCACGAGGCTCTGAGCCCTCCAGAGCGAGAGGAGAATCAAGGCCACCTGGGAAA  
 GGGAGCCCCCTGTGACTGGAATGTATGGACAGCCCTGGAAACATATCTACAGGTAAGTACTGAGCAGAAAT  
 TCTGGGAGAAGGGGA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226210 protein sequence  
 Red=Cloning site Green=Tags(s)

MATIAAAAFEALMDGVTCWDVPRGPIPESELLIGEEAFPMVNDKGQVLIASSYGRGRLVVVSHEGYLS  
 HTGLAPFLLNAVSWLCPGAPVGVHPSLAPLVNILDAGLEAQVKPEPGEPLGVYCINAYNDLTATLI  
 QFVKHGGGLLIGGQAWYASQHGPKVLSRFPGNKVTSVAGVYFDTYGD RDRFKVSKKVPKIPLHVRYG  
 EDVQRDQQQLLEGISLDIRTTGGVPSQLLVHGALAFPLGLDASLNCFLAAAHYGRGRVLAHECLLCAP  
 KMGPFLLNAVRWLAGQTGKVGVTNLKDLCPLLSEHGLQCSLEPHLNSDLCVYCCKAYS DKEAKLQEF  
 VAEGGGLLIGGQAWWASQNPGHCLAGFPNGIILNCFGLSILPQTLKAGCFVPVTPEMRSYHFRKALSQ  
 FQAILNHENGNLEKSLAKLRVDGAAFLQIPAEGVPAYISLHRLLRKMLRGSLPAVSRENPVASDSYEA  
 AVL SLATGLAHS GTDCS QLAQGLGTWCSSSLYPSKHPITVEINGINPGNND CWSTGLYLLEGQNAEVS  
 LSEAAASAGLRVQIGCHTDDLTKARKLSRAPVVT HQCWM DRTERSVSCLWGGLLYVIVPKGSQLGPVPT  
 IRGAVPAPYYKLGKTSLEEWKRQMQENLAPWGELATDNIILTVP TTNLQAL KDPEPVLRLWDEMMQAVAR  
 LAAEPFRRRPERIVADVQISAGWMHSGYPIMCHLESVKEIINEMDMRSRGVWGP IHELGHNQRRHGWEF  
 PPHTEATCNLWSVYVHETVLGIPRAQAHEALSPPERERRIKAHLGKGAPLCDWNVWTALETYLQVLSRN  
 SGRRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6609\\_d11.zip](https://cdn.origene.com/chromatograms/mk6609_d11.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

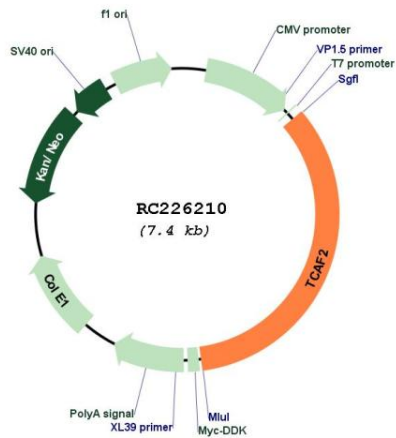
Cloning sites used for ORF Shuttling:



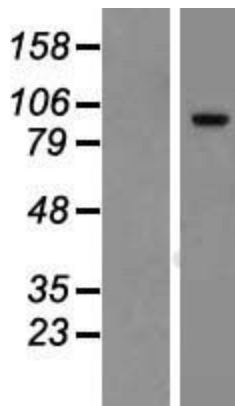
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_001130025
<b>ORF Size:</b>	2535 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001130025.1</a> , <a href="#">NP_001123497.1</a>
<b>RefSeq Size:</b>	2997 bp
<b>RefSeq ORF:</b>	2538 bp
<b>Locus ID:</b>	285966
<b>UniProt ID:</b>	<a href="#">A6NFQ2</a>
<b>Cytogenetics:</b>	7q35
<b>MW:</b>	92 kDa
<b>Gene Summary:</b>	Isoform 2: Negatively regulates the plasma membrane cation channel TRPM8 activity. Involved in the recruitment of TRPM8 to the cell surface. Promotes prostate cancer cell migration stimulation in a TRPM8-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC226210



Western blot validation of overexpression lysate (Cat# [LY427110]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226210 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).