

Product datasheet for **RC223901**

FAM115C (TCAF2) (NM_173678) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence: >RC223901 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACCATTGCTGCTGCTGCGTTTGAGGCCCTCATGGATGGAGTGACATGCTGGGATGTCCCAGAG
GCCCCATCCCCAGTGAACCTCTTATTGGAGAAGCCGCCTTCCCGTGATGGTGAATGACAAGGGCCA
GGTGCTCATTGCTGCCTCCTCTACGGCCGAGGCCGCCTCGTGGTTGTGCCATGAGGGCTACCTGTGC
CATACTGGCTTGGCTCCATTTCTCTCAATGCAGTGAGCTGGCTGTCCCTGTCTGGGGCTCCCGTGG
GAGTGCATCCATCCCTGGCACCTCTAGTAAACATCCTACAGGATGCTGGGCTTGAGGCACAGGTCAAGCC
AGAACCAGGAGAGCCCCTAGGGGTTTACTGTATCAATGCCTACAATGACACCTTGACTGCAACGCTGATC
CAGTTTGTGAACATGGAGGGGGCTTGTAAATCGGGGGCCAGGCCCTGGTACTGGGCCAGCCAGCAGCGCC
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CCTGGCGGCTGCTCACTATGGCCGGGGCCGGTGGTCTGGCTGCCACGAGTGCCTGCTGTGCTCCC
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CCTTCAGGCCCTGAAGGACCCGAGCCTGTGCTCCGCCTCTGGGATGAGATGATGCAGGCTGTGGCCAGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223901 protein sequence
 Red=Cloning site Green=Tags(s)

MATIAAAAFEALMDGVTCWDVPRGPIPSELLLIGEAAPVMVNDKGQVLI AASSYGRGRLVVVSHEGYLS
 HTGLAPFLNNAVSWLCPCGAPVGVHPSLAPLVNQLQDAGLEAQVKPEPGEPLGVYCINAYNDTLTATLI
 QFVKHGGGLLIGGQAWYASQHGPKVLSRFPGNKVTSVAGVYFTDTYGDRDRFKVSKKVPKIPLHVRYG
 EDVRQDQQQLLEGISELDIRTGGVPSQLLVHGALAFPLGLDASLNCFLAAAHYGRGRVVLAAHECLLCAP
 KMGPFLLNAVRLARGQTGKVGVTNLKDLCPLLSEHGLQCSLEPHLNSDL CVYCKAYSDKEAKLQEF
 VAEGGGLLIGGQAWWWASQNPGHCLAGFPGNII LNCFLSILPQTLKAGCFPVPTPEMRSYHFRKALSQ
 FQAILNHENGNEKSLAKLRVDGAFLQIPAEGVPAYISLHRLRKMLRGSLPAVSRENPVASDSYEA
 AVLSLATGLAHSGTDCSQAQLGLTWTCSSSL YPSKHPITVEINGINPGNNDWCWSTGLYLLEGQNAEVS
 LSEAAASAGLRVQIGCHTDDLTKARKLSRAPVVT HQCWMDRTERSVSCLWGGLLYVIVPKGSQLGPVPT
 IRGAVPAPYYKLGKTSLEEWKRQMQENLAPWGELATDNIILTVPTTNLQALKDPEPVLRLWDEMMQAVAR
 LAEEPFFRRPERIVADVQISAGWMHSGYPIMCHLESVKEIINEMDMRSRGVWGPIHELGHNQQRHGWEF
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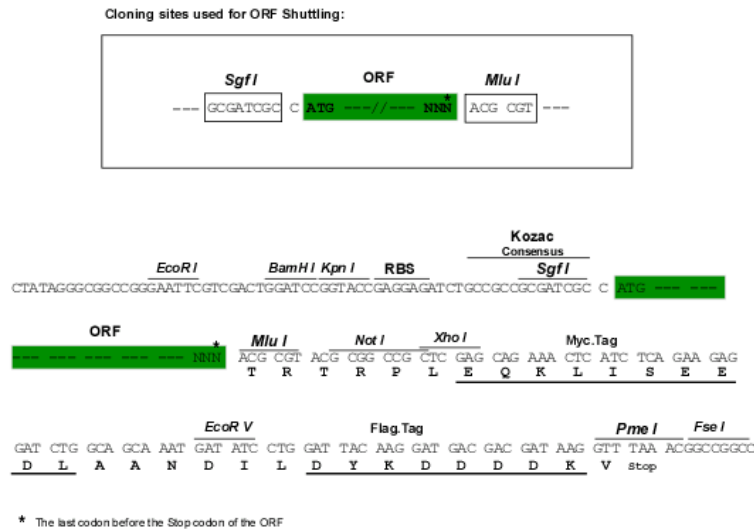
Chromatograms:

https://cdn.origene.com/chromatograms/mk6609_dll.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_173678

ORF Size: 2535 bp

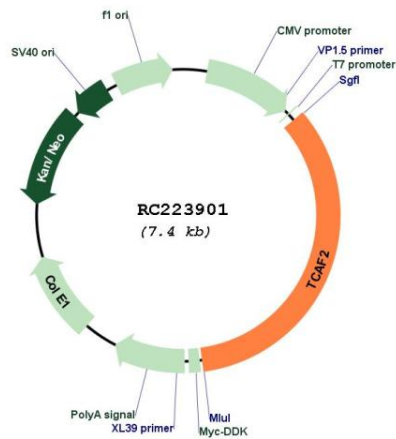
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

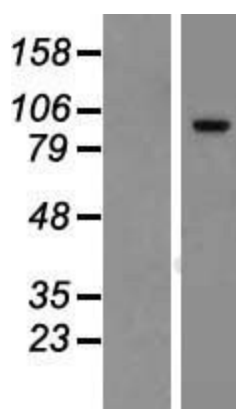
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_173678.3</u>
RefSeq Size:	2983 bp
RefSeq ORF:	2538 bp
Locus ID:	285966
UniProt ID:	<u>A6NFQ2</u>
Cytogenetics:	7q35
MW:	92 kDa
Gene Summary:	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 RC223901



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