

Product datasheet for **RG223901**

FAM115C (TCAF2) (NM_173678) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FAM115C
Synonyms:	FAM115C; FAM139A; GATD9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG223901 representing NM_173678
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACCATTGCTGCTGCTGCGTTTGAGGCCCTCATGGATGGAGTGACATGCTGGGATGTCCCAGAG
GCCCCATCCCCAGTGAACCTCTTATTGGAGAAGCCGCCTTCCCCGTGATGGTGAATGACAAGGGCCA
GGTGCTCATTGCTGCCTCCTCTACGGCCGAGGCCGCCTCGTGGTTGTGTCCTATGAGGGCTACCTGTGCG
CATACTGGCTTGGCTCCATTTCTCTCAATGCAGTGAGCTGGCTGTGCTCCTGTCTGGGGCTCCCGTGG
GAGTGCATCCATCCCTGGCACCTCTAGTAAACATCCTACAGGATGCTGGGCTTGAGGCACAGGTCAAGCC
AGAACCAGGAGAGCCCCTAGGGGTTTACTGTATCAATGCCTACAATGACACCTTGACTGCAACGCTGATC
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CCCCACACACTACTGAGGCCACCTGTAACCTTTGGTCACTACGTGCATGAAACAGTCTCTGGGGATCC
CCAGGGCTCAGGCCACAGGCTCTGAGCCCTCCAGAGCGAGAGGAGAATCAAGGCCACCTGGGAAA
GGGAGCCCCCTGTGACTGGAATGTATGGACAGCCTGGAACATATCTACAGGTACTGAGCAGAAAT
TCTGGGAGAAGGGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223901 representing NM_173678

Red=Cloning site Green=Tags(s)

MATIAAAFEALMDGVTCWDVPRGPIPSELLLIGEAAPVMVNDKGQVLI AASSYGRGRLVVVSHEGYLS
HTGLAPFLNNAVSWLCPCGAPVGVHPSLAPLVNQLQDAGLEAQVKPEPGEPLGVYCINAYNDTLTATLI
QFVKHGGGLLIGGQAWYASQHGPKVLSRFPGNKVTSVAGVYFTDTYGDRDRFKVSKKVPKIPLHVRYG
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KMGPFLNNAVRWLARGQTGKVGVTNLKDLCPLLSEHGLQCSLEPHLNSDL CVYCKAYS DKEAKLQEF
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AVLSLATGLAHSGTDCSQAQGLGTWTCSSSLYPSKHPITVEINGINPGNDCWVSTGLYLLEGQNAEVS
LSEAAASAGLRVQIGCHTDDLTKARKLSRAPVVTHQCWMDRTERSVSCLWGGLLYVIVPKGSQLGPVPVT
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LAAEPFPRRPERIVADVQISAGWMHSGYPIMCHLESVKEIINEMDMRSRGVWGPIHELGHNQQRHGWEF
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SGRRG

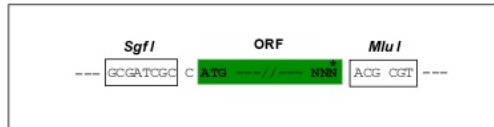
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Cloning sites used for ORF Shuttling:

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

PmeI FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT

- - E E R V Stop

ACCN: NM_173678

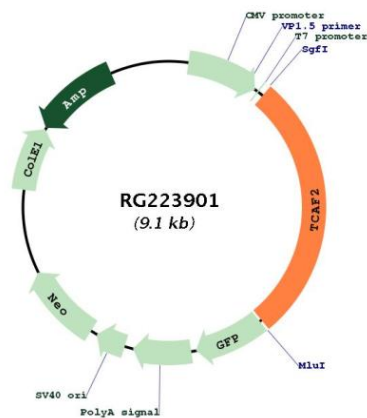
ORF Size: 2535 bp

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:	NM_173678.1 , NP_775949.1
RefSeq Size:	2955 bp
RefSeq ORF:	2538 bp
Locus ID:	285966
UniProt ID:	A6NFQ2
Cytogenetics:	7q35
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 RG223901