

Product datasheet for **RC203683**

FAM114A2 (NM_018691) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM114A2 (NM_018691) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM114A2
Synonyms:	133K02; C5orf3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC203683 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGATAAAGATGATATTGAGACTCCACTGCTAACTGAAGCAGCCCCATCCTTGAAGATGGAAACT
 GTGAGCCAGCCAAGAATTCTGAGTCTGTTGACCAAGGTGCCAAACCAGAGAGTAAATCAGAACCTGTAGT
 TTCCTACTCGAAAAAGACCAGAGACCAAACCTTCCAGTGACCTTGAGACTTCAAAAAGTTCTCCCTATTTCAG
 GATAATGTTTCCAAGATGTACCCAGACCAGATGGGGTTATTGGGGGAGCTGGGGCAAGTCCATACTCT
 CCTCAGCCTCGGCTACAGTAGCTACAGTAGGACAAGGCATTTCAAATGTCATCGAGAAGGCAGAGACTTC
 CCTTGGAAATCCCTAGTCCAGTGAATTTCAACTGAAGTCAAGTATGTAGCAGGAGAGACAAATGCCAAA
 GAGAATGAAAACCTCCCCAGTGGCTGGGGCATTGGTGTATTCTCTACCATCTCTACTGCTGTTTCAGA
 GCACAGGAAAAGAGTGTTATAAGTGGGGTTGGATGCCTTAGAATTCATTGGAAAAAGACAATGGATGT
 GATAGCAGAAGGGATCCTGGATTTAAAAGAACCAAGGGTCTGATGAACCGAAATGCTACACTATCTCAG
 GTTTTACGAGAGGCGAAGGAGAAAAGAAGAGATACGGACCTCCAATGAGGTTACCGTGGAAAACAGACAAGA
 AAACTCATTATGGGCTACTCTTTGATGAATTTCAAGGCCTTTCACATCTAGAAGCTCTGGAGATGCTTTC
 CCAAGAAAGTGAATAAAGGTGAAATCTATCCTTAATTCTCTGAGTGGAGAAGAATTAGAGACTCTAAAA
 GTTGAATTAGAGCAACTCAAAGAAACATTTTCTCTAGCAGAAATTTGTGAAGAAGAGGAAGAAGAGAAAA
 AAGGGGATGAAGATTTTACCAAGGACATAACAGAGCTGTTTTCCAGCTGCACGTTTCTCCAAACCAGA
 GAAACTTGCCAGGGCAAGAAATACCGCCACGAATGGATCAGGAAGTCTCTGACCAAGCCATTAGCAGAG
 AATGAAGAAGGAGAAAAACAGTCGGAAGCAGAAAACTGAGCAAGTCAACAAAAATTCATAGAGGATA
 TCCATTGCTTTGCAATCCGGAGCTGGTGAAGTGAAGTCAATGAACTATTCCACAAAAACAGC
 TGCATTGGTTCTGCATGGCAGGAAGCAGGAAGTACAGCCATAGAAAGGAGCCAAACTCTTCCAGATG
 ACAATTGTGTTGTAAAGAGTTGCTCTCTGTCTAAAGAGTTCACTACCTGCCTAACAACTGCTGGGG
 TCAAAGAAATGGCAGATGCTCTTAACCCATTAATCACTGCAGTATTTCTAGAGGCATCAAACAGTGCCTC
 CTACATCCAGGACGCCTTTCAGCTACTCTTACCTGTGCTAGAGATCTCTCTCATTGAGAACAAGATTGAA
 TCACACAGACATGAGCTGCAGGGCCAGAAACCTTTGTTAGAACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203683 protein sequence
 Red=Cloning site Green=Tags(s)

MSDKDDIETPLLTEAAPILEDGNCEPAKNSSEVDQGAKPESKSEPVVSTRKRPETKPSDDLETSKVLPIQ
 DNVSKDVPQTRWGYWGSWGSILSSASATVATVGQGISNVIEKAETSLGIPSPSEISTEVKYVAGETNAK
 ENENSSPVAGAFGVFSTISTAVQSTGKSVISGGLDALEF IGKKTMDVIAEGDPGFKRTKGLMNRNATLSQ
 VLREAKEKEEIRTSNEVTVETDKKTHYGLLDFEFQGLSHLEALEMLSQSESEIKVKSILNSLSGEELET
 VELEQLKETFSLAEFCEEEEEKKGDEDFTKDITELFSQLHVSSKPEKLARARNTAHEWIRKSLTKPLAE
 NEEGEKQSEANTEQVNKNSIEDIHAFAIRSLAELTACSIELFHKTAALVLHGRKQEVTAIERSQTL SQM
 TIVLCKELSSLSKEFTTCLTTAGVKEMADVLNPLITAVFLEASNSASYIQDAFQLLLPVLEISLIENKIE
 SHRHELQGQKPLLEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6303_e09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018691

ORF Size: 1515 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_018691.4](#)

RefSeq Size: 2886 bp

RefSeq ORF: 1518 bp

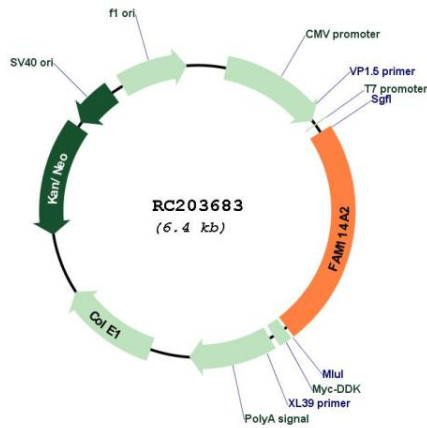
Locus ID: 10827

UniProt ID: [Q9NRY5](#)

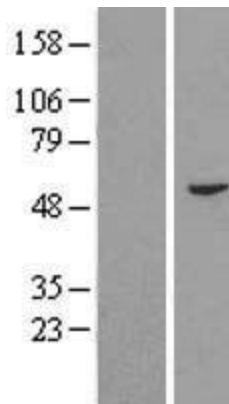
Cytogenetics: 5q33.2

MW: 55.5 kDa

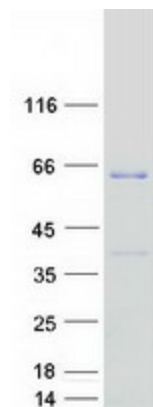
Product images:



Circular map for RC203683



Western blot validation of overexpression lysate (Cat# [LY412952]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203683 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAM114A2 protein (Cat# [TP303683]). The protein was produced from HEK293T cells transfected with FAM114A2 cDNA clone (Cat# RC203683) using MegaTran 2.0 (Cat# [TT210002]).