

Product datasheet for **RC205045**

FAM104B (NM_138362) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FAM104B (NM_138362) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FAM104B
Synonyms: CXorf44
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205045 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAGGCTGCCCTGTACGGAAAAGAAGAAGAAATGGCAGTAAAGAGGGCAACCATCATTCCACCCAGC
CCAAAAGGAATAAGAGAAACCCTATCTTTCAGGATTCTCAAGATACAGAGGTATTTTCATGGAGTGATAA
TGAAAGGAGCAGCAGCCGATTAATATCCAGAGAGCAAGTGGACCAGAAGGCAACTAAACCAGATT
GTTACTGAACCCGATGCAAACCTTCCCGAGTTCTGCATGAGGGATTGTCTAAACCTGTTTATGTCATAA
ACTGGTTTATGTCCTTTGGTCCTGAAATAAACTCAACTTACAGCAGGGAAGGAACCAAGCTGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205045 protein sequence
Red=Cloning site Green=Tags(s)
MGGCPVRKRRRNGSKEGNHHSTQPKRNKRNPFIQDSQDTEVFSWSDNERSSSRINIPERASGPEGNLNQI
VTEPDANFPQFLHEGLSKPVYVINWFMSFGPEIKLNTSQGRNQAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6580_c12.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_138362

ORF Size: 348 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_138362.2](#)

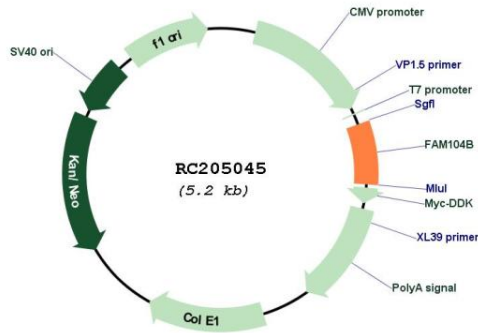
RefSeq Size: 1092 bp

RefSeq ORF: 348 bp

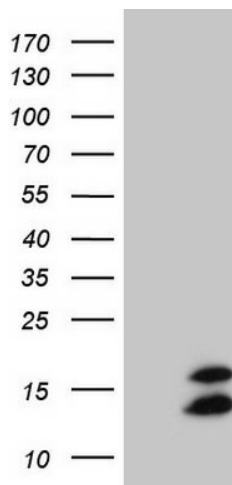
Locus ID: 90736

UniProt ID: [Q5XKR9](#)
 Cytogenetics: Xp11.21
 MW: 13.2 kDa

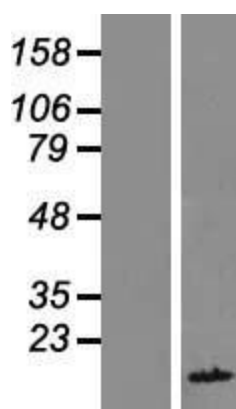
Product images:



Circular map for RC205045



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FAM104B (Cat# RC205045, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FAM104B (Cat# [TA808408])(1:2000). Positive lysates [LY408633] (100ug) and [LC408633] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408633]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205045 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).