

Product datasheet for **RC216000**

FRG2 (NM_001005217) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRG2 (NM_001005217) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FRG2
Synonyms:	FRG2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216000 representing NM_001005217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAAGGGAAATGAAGACTCCGATCTCCACTGCTCCTCCATCCAGTGCTCCACTGACCAGCCCCCTT
TCCAACAGATCTCCTTTACAGAAAAGGGCTCAGATGAGAAGAAACCATTCAAAGAAAAGGCAAGACCGC
CTTCTCCATTCCAGTGAGAAGCACATACAAAGGCAAGGATCGGAGCCCAATCCAACAAGGAGAATTCT
GAGGAAACCAAGCTCAAGGCCGGAACAGCACTGCTGGATCAGAACCAGAGTCCAGCTCATATCGGGAAA
ACTGCAGGAAAAGAAAAATGAGTTCCAAGGACAGCTGCCAAGACACAGCAGGGAAGTGTCCAGAAAAGGA
GTGCAGCTTGTCATTGAATAAAAAATCAAGATCCTCCACTGCTGTGCACAACAGTGAAATCCAGGAGACC
TGTGATGCCACCATAGGGGACATTCCAGGGCTTGCCTGGGCACAGCAAGCGGCATAGGTTCTCGGGCCC
TAGGAGTCCAACACCGTCAATTCGAAAAGCTTGGTGACTTCTGTGCGAGCTATGTGAGGCTGTTTA
TCAAGACCTAGCCAGGTGTGGGCACAGCAGATCCATTCTCCACTTACCTGTGAGCAGCTGACACTGCTC
ACTCGGCTCCGGGGCCCTCTGTGTGCCAGGTGCAGACCTTGTATTCCATGGCCACCCAGGCAGCTTATG
TCTTCCCTGCTGAGAGCTGGCTTGTCCCAGCCACTGCCAGGTCCTGGGAATCAGCCCTGGATAGAGA
AGCCCATCCCTTCCCTGGGCAGGAGATAACTGAGACTGTCACTGGATCAGATGAGGCTAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216000 representing NM_001005217
Red=Cloning site Green=Tags(s)

MGKGNEDSDLHCSSIQCSTDQPPFQQISFTEKGSDEKKPFKEKGTAFSHSSEKHIQRQGSEPNPNKENS
 EETKLKAGNSTAGSEPESSSYRENCRRKRMSSKDSCQDTAGNCPKEKCSLSLNKKSRSSSTAVHNSEIQET
 CDAHHRGHSRACTGHSKRHRSRALGVQTPSIRKSLVTSVRAMSEAVYQDLAQVWAQQIHSPLTCEQLTLL
 TRLRGPLCAQVQTLYSMATQAAYVFPAESWLVPATLPGPGESALDREAHPPFQGEITETVSGSDEAKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1263_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005217

ORF Size: 834 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_001005217.4](#)

RefSeq Size: 2084 bp

RefSeq ORF: 837 bp

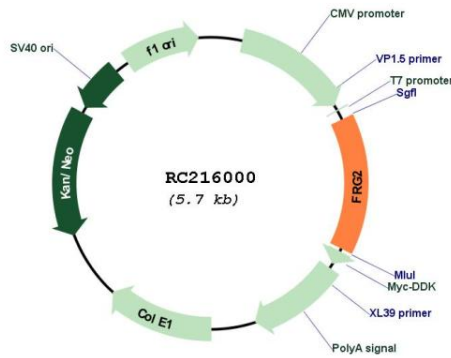
Locus ID: 448831

UniProt ID: [Q64ET8](#)

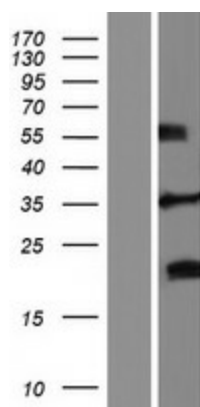
Cytogenetics: 4q35.2

MW: 30.3 kDa

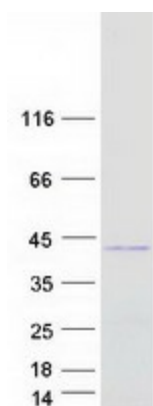
Product images:



Circular map for RC216000



Western blot validation of overexpression lysate (Cat# [LY423808]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216000 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FRG2 protein (Cat# [TP316000]). The protein was produced from HEK293T cells transfected with FRG2 cDNA clone (Cat# RC216000) using MegaTran 2.0 (Cat# [TT210002]).