

Product datasheet for **RC226189**

EFR3B (NM_014971) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFR3B (NM_014971) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EFR3B
Synonyms:	KIAA0953
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226189 representing NM_014971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACGGTGTGTGGTGTGCTGTGGTGCCTACGCCAGGTACAAAAGGCTGGTTGACAACATCTTCC
 CTGAGGATCCCGAGGATGGTCTGGTGAAGACCAACATGGAGAAGCTGACCTTCTATGCCCTCTCAGCTCC
 AGAAAACTTGATCGTATTGGCGCTACCTCTCTGAGAGGCTCATCCGTGACGTGGTTCGCCATCGATAT
 GGGTACGTGTGCATTGCTATGGAGGCTTTGGACCAGCTGCTCATGGCTGCCACTGCCAGAGCATCAACC
 TCTTCGTGGAGAGCTTCTCAAGATGGTGGCAAGCTGCTGGAGTCAGAGAAACCAACCTGCAGATCCT
 CGGCACCAACTCGTTTGTGAAGTTTGCACACATCGAGGAGGACACCCCGTCTATCACCGGAGCTATGAC
 TTCTTTGTGTCCGATTCAAGTAAATGTGCCACTCGAGCCATGATGACTTAGAAATCAAGACAAAATTC
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 GAGAGCCGGTCTCCCTCACCCCTCCAAGCACCTGAGAAGGAGAAAGAGAGCCCGCGGAGCTGGCTGAGA
 GGTGTCTTCGGGAGCTGCTGGGCCGGGCTGCCTTTGGCAACATCAAAAACGCCATCAAGCCTGTTCTCAT
 CCATCTGGATAACCATTCTTTTGGAAACCAAGGTGTTTGCATCCGTTGCTTTAAAATCATCATGTAC
 TCAATTCAGCCGAGCACTCACACCTGGTATCCAGCAGCTCCTGGGCCACCTGGACGCCAACAGCCGCA
 GCGCTGCGACGGTGCAGCGGGCATCGTGAAGTCTTGTGGAAGCCGCGGTATCGCTGCCACCGGCTC
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 CTGACCGGGAGCTACGACGGGGCGGTGAGCTCGGCACCAAGATCATCAAGGAGCAGGAGGAGCGCATGT
 TCCAGGAGGCCGTATCAAGACCGTGGGCTCCTTTGCCAGCAGCTGCCACCTACCAGCCTCCGAGGT
 GATCCTCTTATCATGAGCAAGTCCCGCGCCATCCCTGCACCAGGCGGTGGACACAGGCAGGACGGGG
 GAGAATAGGAACCGTCTGACCCAGATTATGCTGCTAAAATCCCTCCTGCAGGTATCCACAGTTCAGT
 GCAACAACATGATGTCAGCCCTGCCTAGCAACTTCTGGACCGCCTTCTCTCCACCGCCCTCATGGAGGA
 TGCAGAAATTCGACTCTTTGTTCTAGAGATTCTCATCAGTTTCATTGATCGTCATGGCAACCGCCACAAG
 TTCTCTACCATCAGTACCCTCAGTGACATCTCTGTCTGAAGCTGAAAGTGGACAAGTGTCTCGACAGG
 ACACCGTCTTATGAAGAAGCACTCCAGCAGCTCTACAGACACATCTACCTGAGCTGCAAGGAGGAAAC
 AAACGTGCAGAAACTACGAGGCGCTCTATGGCTTGTGGCCCTCATCAGCATCGAGCTGGCTAACGAG
 GAGGTGGTGGTGGACCTATCCGTCTGGTGTGGCTGTTGAGGAGTGGCCCAAGTCAATGAGGAGAACT
 TGCTGTCTACAACCGCTGTGCCCTCTATGCTCTGGGCGCAGCCTACCTGAACCTCATCAGTCAGCTCAC
 AACAGTGCCTGCCTTCTGCCAGCACATCCATGAGGTGATAGAGACCAGGAAGAAAGAGGCTCCATACATG
 CTCCCCGAGGATGTGTTTGTGGAGAGGCCAGGCTGTCTCAGAATCTTGATGGGGTGGTCAATTGAGCTCC
 TCTTCCGCGAGCAAGATCAGTGAAGTCTGGGAGGAGTGGCTACAACCTCGGACCGGCTCTGCCTGCC
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 AGACACTGAAGAAAGCCATTGTGGACAGCGTAGCAGTGGAGGAGCAGGAGCGTGAAGCGCGCGGAGGT
 GGTGGAGAAGTCCAGAAGGCACCTTCGAGGAGATTGCTGCACACTGCGGGGCCCGGCGATCGCTGCTC
 CAGAGCAAACCTCAATCAGATCTTTGAAATCACCATCCGGCCCCCAAGCCATCAGGAACCATCACTG
 CAGCCTACGGTACGCGCAGAACCCTCCATCCCGTCTATGAAATGAAGTTTCCCGATCTGTGTGTATA
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226189 representing NM_014971
Red=Cloning site Green=Tags(s)

MYGVCGCCGALRPRYKRLVDNIFPEDPEDGLVKTNMEKLT FYALSAPEKLD RIGAYLSERLIRDVGRHRY
GYVCIAMEALDQLLMACHCQSINL FVESFLK MVAK LLESEKPNLQILGTNSFVKFANIEEDTPSYHRSYD
FFVSRFSEMCHSSHDDLEIKTKIRMSGIKGLQGVVRKTVNDELQANIWDPQHMDKIVPSLLFNLQHVEEA
ESRSPSP LQAPEKEKESPAEL AERCLRELLGRAAFGN IKNAIKPVL IHLDNHSLWEPKVFAIRCFKIIMY
SIQPQHSHLVIQQLLGHL DANSR SAATVRAGIVEVLSEAAVIAATG SVGPTVLEMFNTLLRQLR L SIDYA
LTGSYDGA VSLGTKI I KEHEERMFQEAVIKTVGSFASTLPT YQRSEVILFIMSKVPRPSLHQAVDTGRTG
ENRNRLTQIMLLKSL LQVSTGFQCNNMMSALPSNFLDRLLSTALMEDAEIRLFVLEILISFIDRHGNRHK
FSTISTLSDISVLK LKVDKCSRQDTVMKKHSQQLYRHIYLSCKEETNVQKH YEALYGLLALISIELANE
E VVVDLIRLVLAVQDVAQVNEENLPVYNRCALYALGAAYLN LISQLTTVP AFCQHIHEVIETR KKEAPYM
LPEDVFVERPRLSQNL DGVVIELLFRQSKI SEVLGGSGYNSDRLCLPYIPQLTDEDRLSKRRSIGETISL
QVEVESRNSPEKEERVPAEEIYETL KKAIVDSVAVEEQERERRRQVVEKFQKAPFEEIAAHC GARASLL
QSKLNQIFEITIRPPSPSGTITAA YGQPQNHSIPVYEMKFPDLCVY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8034_e09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_014971

ORF Size: 2451 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_014971.2](#)

RefSeq ORF: 2454 bp

Locus ID: 22979

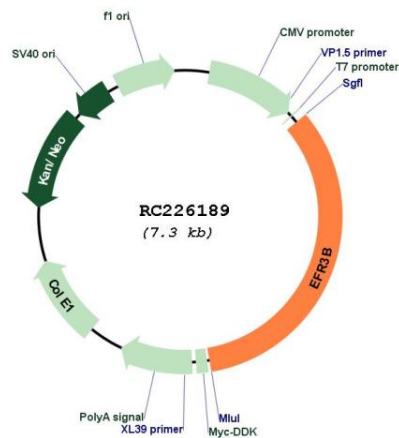
UniProt ID: [Q9Y2G0](#)

Cytogenetics: 2p23.3

MW: 92.3 kDa

Gene Summary: Component of a complex required to localize phosphatidylinositol 4-kinase (PI4K) to the plasma membrane (PubMed:23229899, PubMed:25608530, PubMed:26571211). The complex acts as a regulator of phosphatidylinositol 4-phosphate (PtdIns(4)P) synthesis (Probable). In the complex, EFR3B probably acts as the membrane-anchoring component (PubMed:23229899). Also involved in responsiveness to G-protein-coupled receptors; it is however unclear whether this role is direct or indirect (PubMed:25380825).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC226189