

Product datasheet for **SC323212**

EFR3B (NM_014971) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF: >SC323212 representing NM_014971.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTACGGTGTGTGTGGCTGCTGTGGTGCCTACGCCCCAGGTACAAAAGGCTGTTGACAACATCTTC
CCTGAGGATCCCAGGATGGTCTGGTGAAGACCAACATGGAGAAGCTGACCTTCTATGCCCTCTCAGCT
CCAGAAAACTTGATCGATTGGCGCTACCTCTCTGAGAGGCTCATCCGTGACGTGGGTGCGCCATCGA
TATGGGTACGTGTGCATTGCTATGGAGGCTTTGGACCAGCTGCTCATGGCCTGCCACTGCCAGAGCATC
AACCTCTTCGTGGAGAGCTTCTCAAGATGGTGGCCAAGCTGCTGGAGTCAGAGAAACCAACCTGCAG
ATCCTCGGCACCAACTCGTTTGTGAAGTTTGCCACATCGAGGAGGACACCCCGCTATCACCGGAGC
TATGACTTCTTTGTGCCGATTCAAGTAAATGTGCCACTCGAGCCATGATGACTTAGAAATCAAGACC
AAAATTCGAATGTCAGGCATCAAAGGCCTGCAAGGGGTGGTGAAGAACGGTGAATGATGAAGTCAG
GCCAATATCTGGACCCACAGCAGATGGATAAGATCGTTCCATCACTGCTTTTCAATCTACAGCATGTA
GAGGAGGCAGAGACCGGTCTCCCTCACCCCTCCAAGCACCTGAGAAGGAGAAAGAGAGCCCGCGGAG
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TCCACCGCCTCATGGAGGATGCAGAAATTCGACTCTTTGTTCTAGAGATTCTCATCAGTTTCATTGAT
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TACCTGAGCTGCAAGGAGGAAACAACGTGCAGAAACACTACGAGGCGCTCTATGGCTTGTGGCCCTC
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GTGGCCCAAGTCAATGAGGAGAACTTGCTGTCTACAACCGCTGTGCCCTCTATGCTCTGGGCGCAGCC
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ACCAGGAAGAAAGAGGCTCCATACATGCTCCCCGAGGATGTGTTGTGGAGAGGCCAGGCTGTCTCAG
AATCTTGATGGGGTGGTCATTGAGCTCCTCTCCGCCAGAGCAAGATCAGTGAAGTCTGGGAGGCACT
GGCTACAACTCGGACCGGCTCTGCCTGCCCTACATTCTCAGCTGACAGATGAGGATCGTTTATCCAAG
AGGAGGAGCATTGGAGAGACCATCTCCCTGCAGGTGGAGGTAGAATCGAGGAACAGTCCGAGAGGAG
GAGCGAGTGCCTGCCGAGGAGATCACCTATGAGACACTGAAGAAAGCCATTGTGGACAGCGTAGCAGTG
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GCTGCACACTGCGGGGCCCGGGCATCGCTGCTCCAGAGCAAACTCAATCAGATCTTTGAAATCACCATC
CGGCCCCCACCAGCCCATCAGGAACCATCACTGCAGCCTACGGTCAGCCGAGAACCACTCCATCCCC
GTCTATGAAATGAAGTTTCCGATCTGTGTGATATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI
ACCN: NM_014971
Insert Size: 2454 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_014971.1</u>
RefSeq Size:	7500 bp
RefSeq ORF:	2454 bp
Locus ID:	22979
UniProt ID:	<u>Q9Y2G0</u>
Cytogenetics:	2p23.3
MW:	92.5 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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.