

## Product datasheet for **RC226921**

### **FAM194B (ERICH6B) (NM\_182542) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FAM194B (ERICH6B) (NM_182542) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM194B
Synonyms:	FAM194B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226921 ORF sequence, **codon optimized**.  
 Due to the complexity of NM\_182542, the ORF clone is codon optimized for mammalian Expression.  
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGCTGAGAATAATCAGCTGAGCGGGCGTCCCCCCTCATCTCCACAACCCACAGTACAGCA  
 CCCAGAATCTGCCCTCTGAGAAGGAGGATACCGAGGTGGAATTGGATGAGGAGTCTTTCAGGATGAATC  
 CCCATTACGCCCAGGGCGAGTCTCTGGAAGATAAAGAGTACCTCGAGGAGGAAGAAGATCTGGAAGAG  
 GAGGAGTATTTGGCAAAGAGGAGTATCTCAAAGAAGAAGAATACCTTGGCAAGGAGGAACACCTCGAGG  
 AAGAGGAGTACCTTGAGAAGGCAGGATATCTCGAGGAGGAAGAATATATAGAAGAGGAGGAATACCTGGG  
 CAAAGAGGGCTACCTGGAGGAGGAGGAGTACCTGGGAAAAGAGGAACACCTGGAGGAGGAGGAATACTTG  
 GGCAAAGAAGGCTATCTGGAGAAGGAGGACTATATCGAAGAGGTGGATTATCTCGGGAAGAAAGCCTATC  
 TCGAGGAAGAAGAGTACTTGGGAAAAGAGGTTATCTGGAAGAAGAGAAGGCCCTGGAGAAGGAGGAGAA  
 CTTGGAGGAGGAGGAAGCCCTTGAGAAAAGAGGAGAATCTCGATGGCAAGGAGAATCTTTATAAGAAATAT  
 CTCAAGGAGCCGAAAGCTAGCTACTCAAGCCAGACAATGCTCCTCCGCGACGCTAGATCACCTGACGCGG  
 GCCCTTCCAGGTTACCACGTTCTCACTGTACCTCTGACCTTCGCTACCCCATCACCTGTCTCCGAGTC  
 TGCTACTGAGAGTAGCGAACTGCTGCTCACACTGTATAGAAGGTCCCAAGCATCTCAGACTGACTGGTGC  
 TAGCACCAGGACCCGCTCAAGTCCCTGAAAAGTAAAAGTGAGACTGAGCAAGAGACTACCCAAAACTTG  
 CACCCGAAGAGCATGTGAACACTAAAGTGCAGCAGAAAAAGGAGGAGAACGTTCTGGAATTCGCCTCAAA  
 AGAAAAATTTCTGGGATGGGATTACGGATGAGAGTATCGATAAGCTGGAAGTCAAGACCTGGATGAGAAC  
 TTTCTGAACTCTAGCTATCAGACAGTATCAAGACCATCATCAAAGAGATGGCTGCACACAATGAGCTGG  
 AGGAGGATTTTCGACATTCGCTTAACTCCTGAAAGCGAGAACAGGTGGAAGCTGGTGATAATGCT  
 GAAAAAGAATTATGAAAAGTTTAAAGAAACCATCTCCGCATTAAGCGGAGGCGGGAGGCACAGAACTT  
 ACTGAGATGACATCCTTACCTTCCATCTGATGTCTAAGCCGACCCAGAGAACTGAAACCGAGGAGAA  
 TTCAGAAACCTCAGCGGGTCTGCACCACAGGAAGAACTTGAACGGGACAAAGAGTGGATCCAAAAGAA  
 GACTGTGGTGCACCAGGAGACGGGAACTGATCCTTTACCCAAATAAGAACGTGTACCAGATCCTGTTC  
 CCAGATGGCACCGGCAAATTCCTACCCCTCCGTAATCTGGCTATGTTGATTCTGTACGCCAAGATGA  
 AAAAGTTCACCTACATTATATTGGAAGATAGCCTGGAGGGCCGAATCCGCGCACTGATAAAATAATCCGG  
 CAACGCTACATTCACGACGAAACTCTGATATATGGTGAACCTGAGCAGCAATTTGGGATACTATTTT  
 CCCAAAGATAAGAGACAGAAGGCCTGGAACCTGGTGAACCTCAATATCCACGTGCATGCTCCACCTGTGC  
 AGCCCATCAGCCTGAAGATCAACGAGTACATAAAGTACAGATCAGATCCCAGGATAAGATTATTTTCTG  
 TTTCACTTATGAGCAGAAGCAGATTTGTTTGAACCTCGGCACCAGGTACAAGTTCGTGATCCAGAAGTG  
 CTGAGTGAGATGAAAAAGAAAATACTGAGGAGCCGAGCCCGGCCACTGCCAGAAAAATAGGGTGC  
 TTCTGGGTAAAAATGAATAGGCTCCTCAATTACGCTACAACCCCGGACCTGGAAAAATTTATTGAAGCAGT  
 TAGCATATCCCTCATGGATAACAAGTATCTTAAGAAGATGCTCTCCAATTGTGGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226921 representing NM\_182542  
Red=Cloning site Green=Tags(s)

MSAENQLSGASPPHPPTTPQYSTQNLPSKEKEDTEVELDEESLQDESPFSPEGESLEDKEYLEEEEDLEE  
 EEYLGKEEYLKEEYLGKEEHLEEEYLEKAGYLEEEYIEEEYLGKEGYLEEEYLGKEEHLEEEYLG  
 GKEGYLEKEDYIEVDYLGKKAYLEEEYLGKKSYLEEEKALEKEENLEEEALEKEENLDGKENLYKKY  
 LKEPKASYSSQTMLLRDARSPDAGSQVTTFLTVPLTFATPSPVSESATESSELLTLTYRRSQASQTDWC  
 YDRTAVKSLKSKSETEQETTTKLAPEEHVNTKVQKKEENVLEFASKENFWDGITDESIDKLEVEDLDEN  
 FLNSSYQTVFKTIKEMAHNELEEDFDIPLTKLLESENWKLVIMLKKNYEKFKETILRIKRRREAQKL  
 TEMTSFTFHLMSKPTPEKPETEEIQKPQRVVHHRKKLERDKEWIQKTVVHQGDGKILILPNKNVYQILF  
 PDGTGQIHYPGSLAMLILYAKMKKFTYIILEDSEGRIRALINNSGNATFYDENSIDLNLSSNLGYFF  
 PKDKRQKAWNWNLNIIHVHAPPVQPISLKINEYIQVQIRSQDKIIFCFTYEQKQICLNLGTRYKFVIVEP  
 LSEMKKKTILEAEPGPTAQKIRVLLGKMNRLLNYATTPDENFIEAVSISLMDNKYLKMLSKLWF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_182542

**ORF Size:** 2088 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\\_182542.2](#), [NP\\_872348.2](#)

**RefSeq Size:** 2421 bp

**RefSeq ORF:** 2091 bp

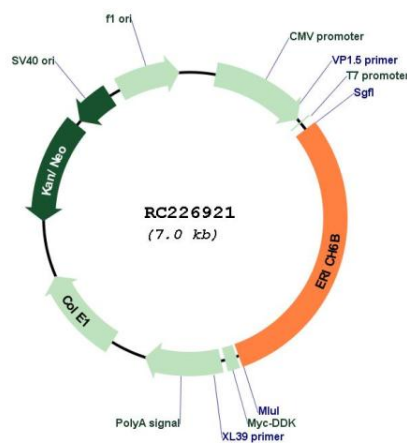
**Locus ID:** 220081

**UniProt ID:** [Q5W0A0](#)

**Cytogenetics:** 13q14.13

**MW:** 81.7 kDa

### Product images:



Circular map for RC226921