

## Product datasheet for **RR211709**

### **Efhd2 (NM\_001031648) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Efhd2 (NM\_001031648) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Efhd2  
**Synonyms:** MGC114423  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR211709 representing NM\_001031648  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACGGACGAGCTGGCCAGCAAGCTGAGTCGGAGGCTGCAGATGGAGGACGAGGGCGGCGAGGCGA  
CGGAGCAGCCGGGGCTCAACGGGGCGGCAGCGGGCGGCGGAGGCTCCCGACGAGACTGCCAGGCGTT  
GGGCAGCGCGGACGACGAGCTGAGCGCCAAGCTGCTGCGGCGCGGACCTCAACCAGGGCATCGGCGAG  
CCGCAGTCGCCCAGCCCGCGTCTTCAACCCCTACACCGAGTTCAAGGAGTTCTCCAGGAAGCAGATCA  
AAGACATGGAGAAGATGTTCAAACAGTATGATGCGGGCAAGGATGGCTTCATCGACTGATGGAGCTGAA  
ACTCATGATGGAGAAGCTGGGGGCCCCAGACGCACCTGGGCCTGAAGAGTATGATCCAAGAGGTGGAT  
GAGGATTTTGACAGAACTCAGCTTCCGGGAGTTCCTTCTGATCTTCCGCAAGGCGGCAGCAGGGGAGT  
TGCAGGAAGACAGTGGCTTGACAGTCTGGCCCGCCTCTCCGAGATTGATGTCTCCACAGAGGGCGTCAA  
GGGTGCCAAGAATTCTTCGAGGCCAAGGTGCAGGCCATCAACGTGTCCAGCCGCTTTGAGGAAGAGATC  
AAAGCCGAGCAGGAGGAAGGAAGCAGGCTGAGGAGGTGAAGCAGCGAAAAGCGGCCTTTAAGGAGC  
TGCAGTCCACATTCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR211709 representing NM\_001031648  
Red=Cloning site Green=Tags(s)

MATDELASKLSRRLQMEDEGGEATEQPGLNGAAAAAAEAPDETAQALGSADDELSAKLLRRADLNQIGIE  
 PQSPSRRVFNPYTEFKEFSRKQIKDMEKMFQYDAGKDFIDLMEKLMMEKLGAPQTHLGLKSMIQEVD  
 EDFDSKLSFRELLIFRKAAGELQEDSGLHVLARLSEIDVSTEGVKGNFFFAKVQAINVSSRFEEEI  
 KAEQEERKKQAEVVKQRKA AFKELQSTFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001031648

**ORF Size:** 717 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\\_001031648.1](#), [NP\\_001026818.1](#)

**RefSeq Size:** 2135 bp

**RefSeq ORF:** 720 bp

**Locus ID:** 298609

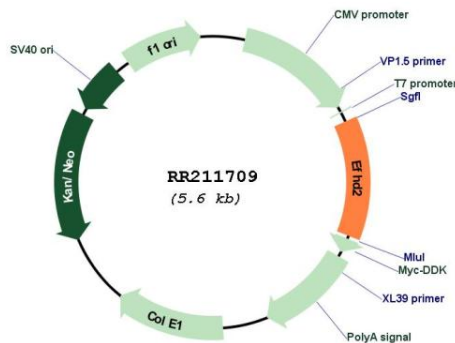
**UniProt ID:** [Q4FZY0](#)

**Cytogenetics:** 5q36

**MW:** 26.8 kDa

**Gene Summary:** May regulate B-cell receptor (BCR)-induced immature and primary B-cell apoptosis. Plays a role as negative regulator of the canonical NF-kappa-B-activating branch. Controls spontaneous apoptosis through the regulation of BCL2L1 abundance.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RR211709