

## Product datasheet for **MR201722**

### **Fxyd5 (BC031112) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fxyd5 (BC031112) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fxyd5  
**Synonyms:** RIC, EF-8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201722 representing BC031112  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCAGTGTCCAGTCCGCTGTGTCTCCTCACTATTGTGCGCCCTGATTCTGCCAGCAGAGGGCAGACAC  
CAAAAAGCCACATCCATTTTTACAGCGGACCAGACTTCTGCGACTACTCGTGACAATGTCCAGATCC  
AGATCAAACAGCCAGGAGTCCAGACCACCCCTCTCATCTGGACCAGAGAAGCAGAAGCCACAGGAAGC  
CAGACAGCAGCCAAACCGAGACCCAGCAACTGACAAAAATGGCCACCTCGAATCCAGTGTCCAGATCCAG  
GGCCACATAACAAGCAGCAAGAAAGGTACCCCTGCAGTCTCCAGGATCGAGCCTCTCAGCCATCCAAAA  
CTTCATGCCTCCATCCTACATTGAACATCCACTGGATTGGAATGAGAACAACCCCTTCTACTACGATGAT  
ACTACCCCTCCGGAAACGGGGACTGCTGGTGGCTGCGGTGCTGTTTCATCACGGGAATTATCATTCTACTA  
GTGAGAGTCCGGCATGGGCAGAAAGGGCAGAAGGGGCTGGGGCGGGCTGGGCTGCATGGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201722 representing BC031112  
**Red=Cloning site Green=Tags(s)**

MSLSSRLCLLTIVALILPSRQTPKKPTSIFTADQTSATTRDNVDPDQTPSPGVQTTPLIWTREAEATGS  
QTAAQTEQQLTKMATSNPVSDPGPHTSSKKGTPAVSRIEPLSPSKNFMPPSYIEHPLDSNENPFYYDD  
TTLRKRGLLVAAVLFITGIIILTSESRWAERARRGWGRAGLHGD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9025\\_e02.zip](https://cdn.origene.com/chromatograms/mm9025_e02.zip)



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC031112

ORF Size: 555 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: [BC031112.1](#)

RefSeq Size: 2995 bp

RefSeq ORF: 557 bp

Locus ID: 18301

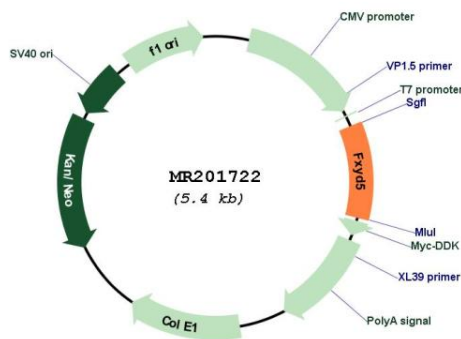
Cytogenetics: 7 B1

MW: 109.8 kDa

**Gene Summary:**

This gene encodes a precursor protein that is member of the FXYD family of transmembrane glycoproteins. Like most members of the FXYD family, the encoded protein is a subunit of the sodium-potassium adenosine triphosphatase pump. FXYD family members have tissue-specific expression and differentially regulate the activity of this pump. The protein encoded by this gene also plays a role in cell adhesion and motility. The orthologous human protein inhibits epithelial cadherin, a calcium-dependent adhesion protein and is associated with cancer (promotes metastasis). Alternative splicing of this mouse gene results in multiple transcript variants. [provided by RefSeq, Dec 2013]

**Product images:**



Circular map for MR201722