

Product datasheet for **MR217841**

Fxyd5 (NM_008761) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fxyd5 (NM_008761) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fxyd5
Synonyms:	EF-8; Oi; Oit2; RIC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217841 representing NM_008761 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGTGTCCAGTCCGCTGTGTCTCCTCACTATTGTGCGCCCTGATTCTGCCAGCAGAGGGCAGACAC
CAAAAAAGCCACATCCATTTTTACAGCGGACCAGACTTCTGCGACTACTCGTGACAATGTCCAGATCC
AGATCAAACCAGCCAGGAGTCCAGACCACCCTCTCATCTGGACCAGAGAAGAAGCCACAGGAAGCCAG
ACAGCAGCCAAACCGAGACCCAGCAACTGACAAAAATGGCCACCTCGAATCCAGTGTGATCCAGGGC
CACATAAAGCAGCAAGAAAGGTACCCCTGCAGTCTCCAGGATCGAGCCTCTCAGCCATCCAAAACTT
CATGCCTCCATCCTACATTGAACATCCACTGGATTGGAATGAGAACAACCCCTTCTACTACGATGATACT
ACCTCCGGAAACGGGGACTGCTGGTGGCTGCGGTGCTGTTTCATCACGGGAATTATCATTCTCACTAGTG
GGAAGTGTAGGCAGTTGTCTCAATTTGCTGAATCGCCACAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR217841 representing NM_008761 Red=Cloning site Green=Tags(s)
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MSLSSRLCLLTIVALILPSRQTPKKPTSIFTADQTSATTRDNVDPDQTPSPGVQTTPLIWTREEATGSQ
TAAQTETQQLTKMATSNPVSDPGPHTSSKKGTPAVSRIEPLSPSKNFMPPSYIEHPLDSNENPNFYDDT
TLRKRGLLVAAVLFITGIIILTSKCRQLSQFCLNRHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

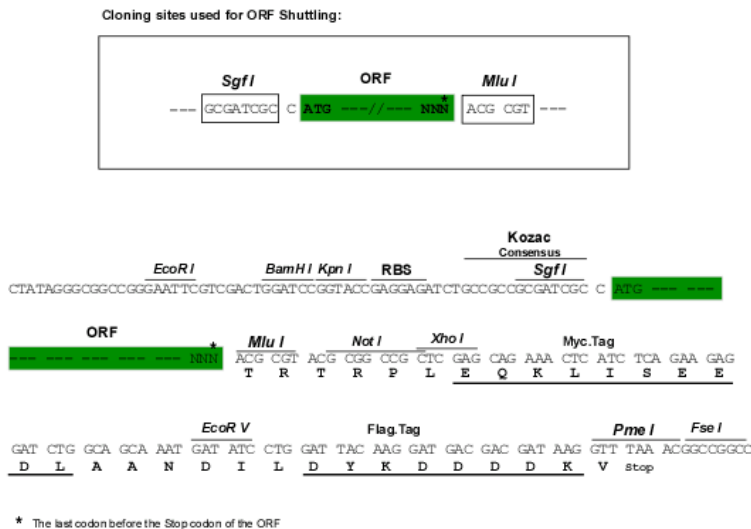
Chromatograms:	https://cdn.origene.com/chromatograms/mm9028_g07.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008761

ORF Size: 534 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_008761.4](#), [NP_032787.1](#)

RefSeq Size: 1016 bp

RefSeq ORF: 537 bp

Locus ID: 18301

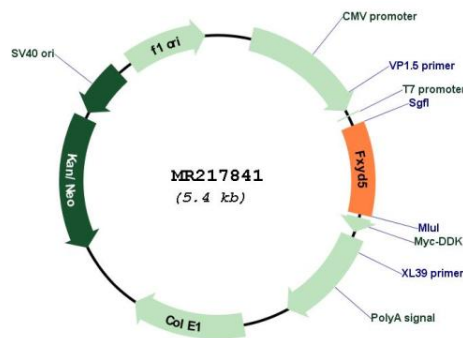
UniProt ID: [P97808](#)

Cytogenetics: 7 B1

MW: 19.9 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 MR217841