

Product datasheet for MR228313

Fxyd5 (NM_001287217) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fxyd5 (NM_001287217) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fxyd5
Synonyms: EF-8; Oi; Oit2; RIC
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228313 representing NM_001287217
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCACTGTCCAGTCGCCTGTGTCTCCTCACTATTGTCGCCCTGATTCTGCCAGCAGAGGGCAGACAC
 CAAAAAGCCACATCCATTTTTACAGCGGACCAGACTTCTGCGACTACTCGTGACAATGTCCAGATCC
 AGATCAAACCAGCCAGGAGTCCAGACCACCCCTCTCATCTGGACCAGAGAAGCAGAAGCCACAGGAAGC
 CAGACAGCAGCCAAACCGAGACCCAGCAACTGACAAAAATGGCCACCTCGAATCCAGTGTCCAGATCCAG
 GGCCACATACAAGCAGCAAGAAAGGTACCCCTGCAGTCTCCAGGATCGAGCCTCTCAGCCATCCAAAA
 CTTTCATGCCTCCATCCTACATTGAACATCCACTGGATTGGAATGAGAACAACCCCTTCTACTACGATGAT
 ACTACCCCTCCGGAAACGGGGACTGCTGGTGGCTGCGGTGCTGTTTCATCACGGGAATTATCATTCTCACTA
 GTGGGAAGTGTAGGCAGTTGTCTCAATTTGCCTGAATCGCCACAGG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228313 representing NM_001287217
 Red=Cloning site Green=Tags(s)

MSLSSRLCLLTIIVALILPSRQTPKKPSTIFADQTSATTRDNVDPDQTPSPGVQTTPLIWTREAEATGS
 QTAAQTETQQLTKMATSNPVSDPGPHTSSKKGTPAVSRIEPLSPSKNFMPPSYIEHPLDSNENNPFYYDD
 TTLRKRGLLVAAVLFITGIIILTSGKCRQLSQFCLNRHR

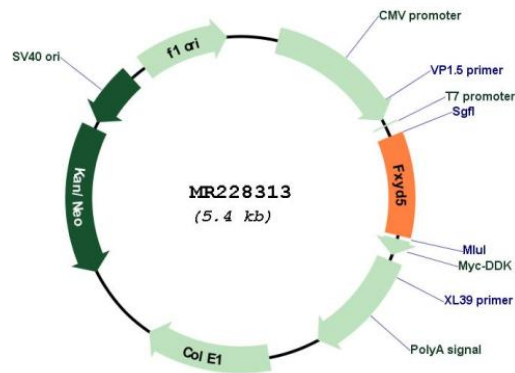
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001287217

ORF Size: 537 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:	<ol style="list-style-type: none">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_001287217.1</u> , <u>NP_001274146.1</u>
RefSeq Size:	1028 bp
RefSeq ORF:	540 bp
Locus ID:	18301
Cytogenetics:	7 B1
MW:	20 kDa
Gene Summary:	This gene encodes a precursor protein that is member of the FXYP family of transmembrane glycoproteins. Like most members of the FXYP family, the encoded protein is a subunit of the sodium-potassium adenosine triphosphatase pump. FXYP 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]