

Product datasheet for MG216343

Fxyd5 (NM 001111073) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Fxyd5 (NM_001111073) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Fxyd5

Synonyms: EF-8; Oi; Oit2; RIC

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG216343 representing NM_0011111073
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCACTGTCCAGTCGCCTGTGTCTCCTCACTATTGTCGCCCTGATTCTGCCCAGCAGAGGGCAGACAC CAAAAAAAGCCCACATCTTTTTACAGCGGACCAGACTTCTGCGACTACTCGTGACAATGTCCCAGATCC AGATCAAACCAGCCCAGGAGTCCAGACCACCCCTCTCATCTGGACCAGAGAAGAAGCCACAGGAAGCCAG ACAGCAGCCCAAACCGAGACCCAGCAACTGACAAAAAATGGCCACCTCGAATCCAGTGTCAGATCCAGGGC CACATACAAGCAGCAAGAAAGGTACCCCTGCAGTCTCCAGGATCGAGCCTTCTAGCCCATCCAAAAACTT CATGCCTCCATCCTACATTGAACATCCACTGGATTCGAATGAGAACAACCCCTTCTACTACGATGATACT ACCCTCCGGAAACGGGGACTGCTGGTGGCTGCGGTGCTGTTCATCACGGGAATTATCATTCTCACTAGTG

GGAAGTGTAGGCAGTTGTCTCAATTTTGCCTGAATCGCCACAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216343 representing NM_0011111073

Red=Cloning site Green=Tags(s)

MSLSSRLCLLTIVALILPSRGQTPKKPTSIFTADQTSATTRDNVPDPDQTSPGVQTTPLIWTREEATGSQ TAAQTETQQLTKMATSNPVSDPGPHTSSKKGTPAVSRIEPLSPSKNFMPPSYIEHPLDSNENNPFYYDDT

TLRKRGLLVAAVLFITGIIILTSGKCRQLSQFCLNRHR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



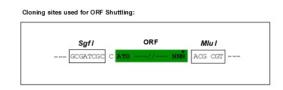
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

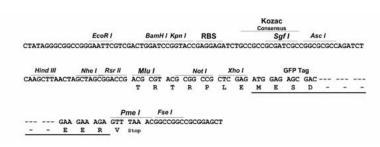
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

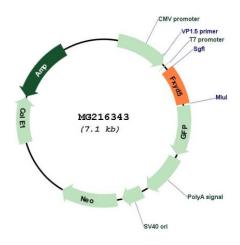


Cloning Scheme:





Plasmid Map:



ACCN: NM 001111073

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.

Fxyd5 (NM_001111073) Mouse Tagged ORF Clone - MG216343

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: <u>NM 001111073.2</u>, <u>NP 001104543.1</u>

 RefSeq Size:
 1144 bp

 RefSeq ORF:
 537 bp

 Locus ID:
 18301

 UniProt ID:
 P97808

 Cytogenetics:
 7 B1

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]