OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC227092

FXYD3 (NM_001136007) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FXYD3 (NM_001136007) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FXYD3
Synonyms:	MAT8; PLML
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>RC227092 representing NM_001136007
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAAGGGGGTATAGTGGGGCCTTGCAGGCCAGAGGTGGCTTGGAGGAGCCCCTGGAAAGAGGCTTAA
GAGGCCCGAGTTTCACCCAGTCCCCACTCCACGGTGCAGCTGCGGCTTATCTCTCAGCCCAGCGAGATGC
CAGCCTTCCTGTCCCGGGCCAGCGCTCTGACATGCAGAAGGTGACCCTGGGCCTGCTTGTGTTCCTGGCA
GGCTTTCCTGTCCTGGACGCCAATGACCTAGAAGATAAAAACAGTCCTTTCTACTATGACTGGCACAGCC
TCCAGGTTGGCGGGCTCATCTGCGCTGGGGTTCTGTGCGCCATGGGCATCATCATCGTCATGAGTGCAAA
ATGCAAATGCAAGTTTGGCCAGAAGTCCGGTCACCATCCAGGGGAGACTCCACCTCTCATCACCCCAGGC
TCAGCCCAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227092 representing NM_001136007
Red=Cloning site Green=Tags(s)

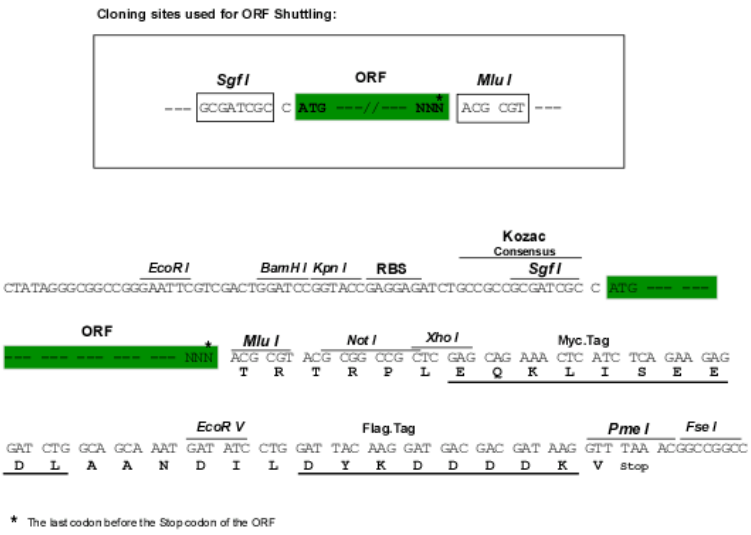
MGRGYSGALQARGGLEEPLERGLRGPSFTQSPLHGAAAAYLSAQRDASLPVPGQRSDMQKVTLGLLVFLA
GFPVLDANDLEDKNSPFYYDWHSLQVGGLICAGVLCAMGIIIVMSAKCKCKFGQKSGHHPGETPPLITPG
SAQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

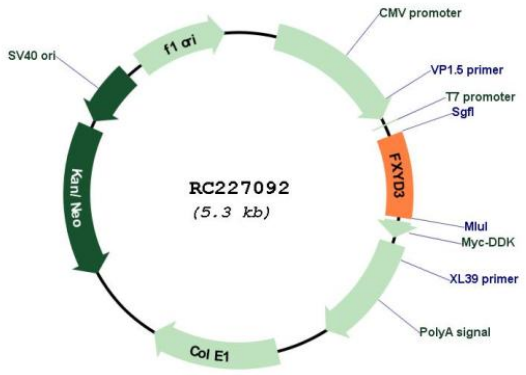
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_001136007

ORF Size: 432 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_001136007.2
RefSeq ORF:	435 bp
Locus ID:	5349
UniProt ID:	Q14802
Cytogenetics:	19q13.12
Protein Families:	Ion Channels: Other, Transmembrane
MW:	15 kDa
Gene Summary:	This gene belongs to a small family of FXYD-domain containing regulators of Na+/K+ ATPases which share a 35-amino acid signature sequence domain, beginning with the sequence PFXYD, and containing 7 invariant and 6 highly conserved amino acids. This gene encodes a cell membrane protein that may regulate the function of ion-pumps and ion-channels. This gene may also play a role in tumor progression. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2008]