

Product datasheet for **RC223180**

FXYD3 (NM_021910) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FXYD3 (NM_021910) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FXYD3
Synonyms: MAT8; PLML
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC223180 representing NM_021910
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAAGGTGACCCTGGGCTGCTTGTGTTCTTGGCAGGCTTTCCTGTCCTGGACGCCAATGACCTAG
AAGATAAAACAGTCCTTTCTACTATGACTGGCACAGCTCCAGGTTGGCGGGCTCATCTGCGCTGGGGT
TCTGTGCGCCATGGGCATCATCATCGTCATGAGTGAGTGGAGGAGCTCGGGGAGCAGGCCGGCCGGGGC
TGGGGCTCCCCTCCCCTGACCACTCAGCTCTCCCAACAGGTGCAAATGCAAATGCAAGTTTGGCCAGA
AGTCCGGTCACCATCCAGGGGAGACTCCACCTCTCATCACCCCGGCTCAGCCCAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223180 representing NM_021910
Red=Cloning site **Green**=Tags(s)
MQKVTLGLLVFLAGFPVLDANDLEDKNSPFYYDWHSLQVGLICAGVLCAMGIIIVMSEWRSSGEQAGRG
WGSPLTTQLSPTGAKCKCKFGQKSGHHPGETPPLITPGSAQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3854_b02.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_021910

ORF Size: 339 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_021910.1](#), [NP_068710.1](#)

RefSeq Size: 1466 bp

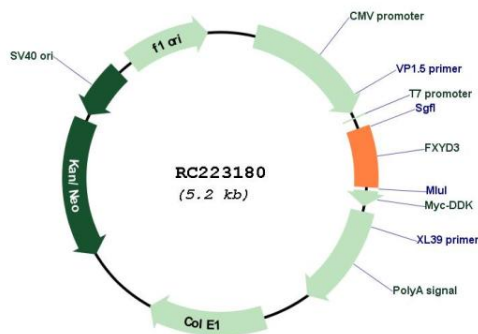
RefSeq ORF: 342 bp

Locus ID: 5349

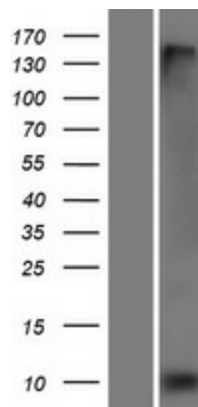
UniProt ID: [Q14802](#)
Cytogenetics: 19q13.12
Domains: ATP1G1_PLM_MAT8
Protein Families: Ion Channels: Other, Transmembrane
MW: 9.8 kDa

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]

Product images:



Circular map for RC223180



Western blot validation of overexpression lysate (Cat# [LY427763]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC223180] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).