

Product datasheet for **RC228721**

FXYD6 (NM_001164836) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FXYD6 (NM_001164836) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FXYD6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC228721 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTGGTGCTGGTCTTCTCTGCAGCCTGCTGGCCCCATGGTCTGGCCAGTGCAGCTGAAAAGG
AGAAGGAAATGGACCCTTTTCATTATGATTACCAGACCCTGAGGATTGGGGGACTGGTGTTCGCTGTGGT
CCTCTTCTCGGTTGGGATCCTCCTTATCCTAAGTCGCAGGTGCAAGTGCAGTTTCAATCAGAAGCCCCGG
GCCCCAGGAGATGAGGAAGCCCAGGTGGAGAACCTCATCACCCCAATGCAACAGAGCCCCAGAAAGCAG
AGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228721 protein sequence
Red=Cloning site Green=Tags(s)
MELVLFVFLCSLLAPMVLASAAEKEKEMDPFHYDYQTLRIGGLVFAVVLFSVGILLILSRRCKCSFNQKPR
APGDEEAQVENLITANATEPQAEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6266_g03.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001164836

ORF Size: 285 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_001164836.3](#)

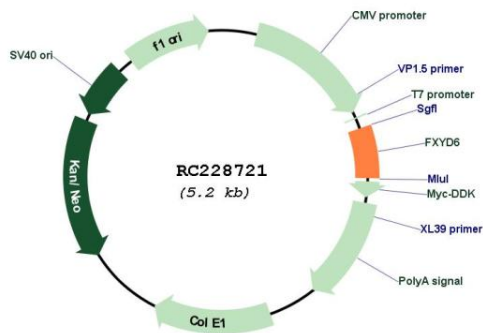
RefSeq Size: 2229 bp

RefSeq ORF: 288 bp

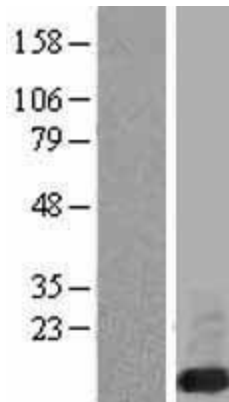
Locus ID: 53826
UniProt ID: [Q9H0Q3](#)
Cytogenetics: 11q23.3
Protein Families: Ion Channels: Other, Transmembrane
MW: 10.5 kDa

Gene Summary: This gene encodes a member of the FXYD family of transmembrane proteins. This particular protein encodes phosphohippolin, which likely affects the activity of Na,K-ATPase. Multiple alternatively spliced transcript variants encoding the same protein have been described. Related pseudogenes have been identified on chromosomes 10 and X. Read-through transcripts have been observed between this locus and the downstream sodium/potassium-transporting ATPase subunit gamma (FXYP2, GeneID 486) locus.[provided by RefSeq, Feb 2011]

Product images:



Circular map for RC228721



Western blot validation of overexpression lysate (Cat# [LY431751]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC228723] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FXYD6 protein (Cat# [TP328721]). The protein was produced from HEK293T cells transfected with FXYD6 cDNA clone (Cat# RC228721) using MegaTran 2.0 (Cat# [TT210002]).