

Product datasheet for **RR206277**

Fxyd6 (NM_022005) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fxyd6 (NM_022005) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fxyd6
Synonyms: Php
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206277 representing NM_022005
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGACGGTGCTGATCCTCTGCAGTTGCTGGCCCTGTGGTCCTGGCTAGTGCAGCTGAGAAGGAGA
AAGAAAAGGATCCTTTCTATTATGACTACCAGACCCTGAGGATTGGGGATTGGTGTTCCTGTGGTCCT
CTTCTCTGTTGGGATACTTCTCATCCTAAGTCGCAGGTGCAAGTGCAGTTCAATCAGAAACCCAGGGCT
CCAGGTGATGAAGAGGCCAGGTGGAGAACCTTACCACAAATGCTGCGGAGCCCAGAAGGCAGAGA
AC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206277 representing NM_022005
Red=Cloning site Green=Tags(s)

METVLIILCSLLAPVVLASAAEKEKEKDPFYDYQTLRIGGLVFAVVLFSVGILLILSRCKCSFNQKPRAPGDEEAQVENLITNAEPQKAEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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_022005.2</u> , <u>NP_071288.1</u>
RefSeq Size:	1784 bp
RefSeq ORF:	285 bp
Locus ID:	63847
UniProt ID:	<u>Q91XV6</u>
Cytogenetics:	8q22
MW:	10.4 kDa
Gene Summary:	<p>This reference sequence was derived from multiple replicate ESTs and a deposited cDNA, and validated by similar human genomic sequence. This gene encodes a member of a family of small membrane proteins that share a 35-amino acid signature sequence domain, beginning with the sequence PFXYD and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXYD-domain containing ion transport regulator. FXYD2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXYD1 (phospholemman), FXYD2 (gamma), FXYD3 (MAT-8), FXYD4 (CHIF), and FXYD5 (RIC) have been shown to induce channel activity in experimental expression systems. Transmembrane topology has been established for two family members (FXYD1 and FXYD2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. This gene product, FXYD6, is novel and has not been characterized as a protein. The name "phosphohippolin" has been used in GenBank, but there is no evidence yet of protein phosphorylation. [RefSeq curation by Kathleen J. Sweadner, Ph.D., sweadner@helix.mgh.harvard.edu., Dec 2000]</p>