

Product datasheet for **SC324488**

FXYD7 (NM_022006) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FXYD7 (NM_022006) Human Untagged Clone
Tag:	Tag Free
Symbol:	FXYD7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_022006.1 CCTGCTTCCAGCTGCTGCAGCGCCTTCGCCCAAAGCATCCAGCAGCCCCCTGCTCC GGCCCAGCATGGCGACCCGACCCAGACCCCAAAAGGCTCCTGAGGAACCTGACCCAT TTTACTATGACTACAACACGGTGCAGACTGTGGGCATGACTCTGGCAACCATCTTGTTC TGCTGGGTATCCTCATCGTCATCAGCAAGAAGGTGAAGTGCAGGAAGGCGGACTCCAGGT CTGAGAGCCCAACCTGCAATCCTGTAAGTCTGAGCTTCCCTCTTCAGCCCTGGTGGCG GCGGCGTGAACACCTTCCCGAGGAACTCCGCTGCCGACCTGCCTGAGCGCGGAGCC TGAGGACCGGGTGGAGGCGGTGGGACCCAGCCGCGCCGGGAGCGCTCCCCGGAATGA GCCGCCACCCACCCAAAGGCTGGAGCCGCTGCACCCTGCTGTCCCTCTCCAGGCCTTG GCAATGACGATCCCCAAAGAGCCCGTCTGCACCCAGACCCAGGGCCTCAGGCCTCCAG CTCCTGGGATCCGGGAGTCCATCCCGGCCAGCACCCCAAGCCTCCCGTGTATGGCCCC CCTGCACCTCCTTGTCTCATCCCGAAGATCCGTCACCCCTGGCCCTCAGTGCCATGTC TTGAGCTTAATAAATGTGCATTTGGTTTTTCTCTAAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_022006
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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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_022006.1](#), [NP_071289.1](#)

RefSeq Size: 713 bp

RefSeq ORF: 243 bp

Locus ID: 53822

UniProt ID: [P58549](#)

Cytogenetics: 19q13.12

Protein Families: Ion Channels: Other, Transmembrane

Gene Summary: This reference sequence was derived from multiple replicate ESTs 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. Transmembrane topology has been established for two family members (FXYP1 and FXYD2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. 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. This gene product, FXYD7, is novel and has not been characterized as a protein. [RefSeq curation by Kathleen J. Sweadner, Ph.D., sweadner@helix.mgh.harvard.edu., Dec 2000]