

Product datasheet for **RG229519**

FXYD4 (NM_001184963) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FXYD4 (NM_001184963) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FXYD4
Synonyms: CHIF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229519 representing NM_001184963
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGAGTGACCCTGGCCCTTCTCCTACTGGCAGGCCTGACTGCCTTGAAGCCAATGACCCATTTG
CCAATAAAGACGATCCCTTCTACTATGACTGGAAAACCTGCAGCTGAGCGGACTGATCTGCGGAGGGCT
CCTGGCCATTGCTGGGATCGCGCAGTTCTGAGTGGCAAATGCAAATGCAAGAGCAGCCAGAAGCAGCAC
AGTCCTGTACCTGAGAAGCCATCCCACTCATCACTCCAGGCTCTGCCACTACTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229519 representing NM_001184963
Red=Cloning site **Green**=Tags(s)

MERVTLALLLLAGLTALEANDPFANKDDPFYYDWKNLQLSGLICGLLAIAGIAAVLSGKCKCKSSQKQH
SPVPEKAIPLITPGSATTC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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:	NM_001184963.1 , NP_001171892.1
RefSeq Size:	636 bp
RefSeq ORF:	270 bp
Locus ID:	53828
UniProt ID:	P59646
Cytogenetics:	10q11.21
Protein Families:	Ion Channels: Other, Transmembrane
Gene Summary:	<p>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. FXYD4, originally named CHIF for channel-inducing factor, has been shown to modulate the properties of the Na,K-ATPase, as has FXYD2, also known as the gamma subunit of the Na,K-ATPase, and FXYD7. Transmembrane topology has been established for FXYD4 and two family members (FXYD1 and FXYD2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. Alternatively spliced transcript variants encoding the same protein have been found.[provided by RefSeq, May 2010]</p>