

Product datasheet for **RN215122**

Fxyd7 (NM_022008) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fxyd7 (NM_022008) Rat Untagged Clone
Tag: Tag Free
Symbol: Fxyd7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN215122 representing NM_022008
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCACCCCAACCCAGAGCCCCACAACGTTTCCTGAAGAAACAGATCCTTTTTTCTATGACTATGCCA
CCGTGCAGACTGTGGGGATGACCCTGGCCACTATCATGTTTCGTGCTGGGCATCATCATCATCAGCAA
GAAGGTTAAGTGCAGGAAGGCGGACTCCAGGTCGAGAGCCCAACATGCAAATCCTGTAAGTCGGAAC TG
CCCTCCTCAGCCCTGGAGGTGGCGGTGT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_022008
Insert Size: 243 bp
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).
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).



[View online »](#)

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_022008.1](#), [NP_071291.1](#)

RefSeq Size: 714 bp

RefSeq ORF: 243 bp

Locus ID: 63848

UniProt ID: [P59649](#)

Cytogenetics: 1q21

Gene Summary: This reference sequence was derived from multiple ESTs and validated by similar mouse cDNA and 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 PFXVD and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXVD-domain containing ion transport regulator. Transmembrane topology has been established for two family members (FXVD1 and FXVD2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. FXVD2, also known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXVD1 (phospholemman), FXVD2 (gamma), FXVD3 (MAT-8), FXVD4 (CHIF), and FXVD5 (RIC) have been shown to induce channel activity in experimental expression systems. This gene product, FXVD7, 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]