

Product datasheet for RC205819L3

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OriGene Technologies, Inc.

FXYD7 (NM_022006) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: FXYD7 (NM_022006) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: FXYD7

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

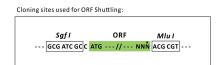
ORF Nucleotide The ORF insert of this cl

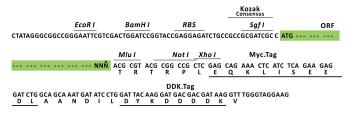
Sequence:

The ORF insert of this clone is exactly the same as(RC205819).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_022006

ORF Size: 240 bp

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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.

NM 022006.1 RefSeq:

RefSeq Size: 713 bp RefSeq ORF: 243 bp Locus ID: 53822 UniProt ID: P58549

19q13.12 **Protein Families:** Ion Channels: Other, Transmembrane

MW: 8.5 kDa

Cytogenetics:

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 (FXYD1 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]