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Product datasheet for MG200920

Fxyd7 (BC061101) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fxyd7 (BC061101) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fxyd7
Synonyms:	1110035I01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG200920 representing BC061101
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCCCAACCCAGAGCCCCACAAACGTTCCTGAAGAAACAGATCCTTTTTTCTATGACTATGCCA
CTGTGCAGACTGTGGGGATGACCCTGGCCACTATCATGTTCGTGCTGGGGATCATCATCATCCTGAGCAA
GAAGGTGAAGTGCAGGAAGGCGGATTCCAGCCCAACATGCAAATCCTGTAAGTCGGAACTGCCCTCCTCA
GCCCCTGGAGGTGGCGGTGTGTGGGATCCTCTGCAGATTTCCACTGCTGTCCCTGGCCAGAGTGCAGGAA
CCAGAGGACCCAGAGAAGGCGGTGGGGACCCAGCCTGGCGCCAGGGAGTGTGCCCCCAATCAGCCGCCAG
ACCCACCCCAAGGCCGGAGCCAATGCACCCCGCTCTCCCTCCCCAGGCCTTGGCAACAACGATCCTATTT
GTACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG200920 representing BC061101
Red=Cloning site Green=Tags(s)

MATPTQSPTNVPEETDPFFYDYATVQTVGMTLATIMFVLGIIIILSKKVKCRKADSSPTCKSCKSELPSS
APGGGGVWDPLQISTAVPGQSAGTRGPREGGGDPAWRQGVCPQSAARPTPRPEPMHPALPPQALATTILF
VP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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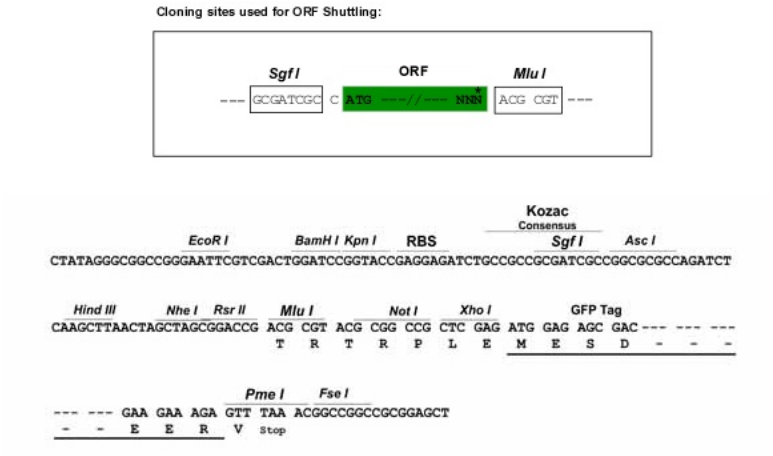
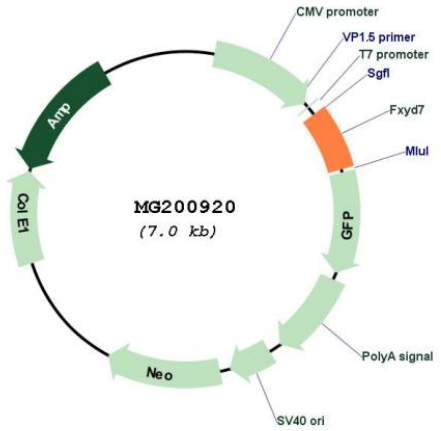
Cloning Scheme:



Plasmid Map:



ACCN:	BC061101
ORF Size:	426 bp
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.
RefSeq:	BC061101.1
RefSeq Size:	770 bp
RefSeq ORF:	428 bp
Locus ID:	57780
Cytogenetics:	7 B1
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]