

## Product datasheet for **RG231225**

### Fukutin (FKTN) (NM\_001198963) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fukutin (FKTN) (NM_001198963) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FKTN
Synonyms:	CMD1X; FCMD; LGMD2M; LGMDR13; MDDGA4; MDDGB4; MDDGC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231225 representing NM_001198963 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTAGAATCAATAAGAACGTGGTTTTGGCCCTTTAAACGCTGACAAGTTCTGCATTTCTGCTGTTTC  
AGTTGTACTACTACAAGCACTATTTATCAACAAAGAATGGAGCTGGTTTGTCAAATCCAAGGAAGCCG  
AATTGGATTTGATAGCACACAGTGGCGTGCAGTAAAAAATTTATTATGTTAACATCCAACAAAATGTA  
CCAGTGTTCCTATTGATCCTTTGATACTGGAATTGATTAATAAGAACTTTGAACAAGTCAAAAATACTT  
CTCATGGCTCTACTTCACAATGCAAGTTTTTCTGTGTTCCAAGAGACTTTACTGCATTTGCACTGCAGTA  
TCACCTATGGAAGAATGAGGAAGGCTGGTTCCGATAGCTGAGAATATGGGATTTCAAGTGCCTAAAGATT  
GAGAGTAAAGATCCCCGGCTAGACGGGATAGACTCACTCTCTGGAAGTAAATCCCCCTGCACTATATCT  
GCAAACGGCCACTCATGCGATCCACTTGGTAGTCTTTTCATGAGAGGAGTGGCAACTACCTCTGGCACGG  
CCACTTGAGACTTAAAGAACACATTGACAGGAAATTTGTTCCCTCCGAAAGTTACAGTTTGGTCGTTAT  
CCAGGAGCTTTGACAGGCCAGAGTTACAGCAAGTTACTGTTGATGGACTGGAAGTTCTCATTCAAAGG  
ATCCAATGCACTTTGTAGAAGAAGTACCACACTTAGGTTTATTGAGTGTAGGTATAAAGAAGCTCGAGC  
ATCTTTTCAGCAGTACCTTGATGATAACACTGTGGAAGCTGTGGCCTTTCCGAAAGTGCAAAGGAATTA  
CTGCAACTAGCAGCGAAAACATTAACAAATTTGGGAGTACCATTCTGGCTGAGCAGTGGAACTTGTCTAG  
GATGGTATCGACAATGCAACATTATTCCTTATAGCAAAGATGTTGACCTAGGAATTTTTATACAAGATTA  
CAAATCTGATATTATTTAGCATTTCAGGATGCAGGACTTCCGCTCAAACACAAAATTTGGGAAGGTAGAA  
GACAGCTTGGAACTATCCTCCAGGGAAAAGATGATGTAACAACTTGTGTTTTTTTCTTCTATGAAGAAA  
CTGATCACATGTGGAATGGAGGCACTCAGGCCAAAACAGGAAAAAATTCAAATACCTGTTTCCGAAGTT  
TACTGTGCTGGACTGAGTTTGTAGACATGAAGGTCCATGTACCCTGTGAAACCCTCGAATACATTGAA  
GCCAACTATGGCAAGAATCAGCAGGGTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG231225 representing NM\_001198963  
 Red=Cloning site Green=Tags(s)

MSRINKNVVLLALLTLTSSAFLLFQLYYYKHYLSTKNGAGLSKSKGSRIGFDSTQWRVKKFIMLTSNQNV  
 PVFLIDPLILEL INKNFEQVKNTSHGSTSQCKFFCVPDRDFAFALQYHLWKNEEGWFRIAENMGFQCLKI  
 ESKDPRLDGIDSLSGTEIPLHYICKLATHAIHLVVFHERSGNYLWHGHLRLKEHIDRKFVPRKLFQGRY  
 PGAFDRPELQQVTVDGLEVLIPKDPMHFVEEVPHSRFIECRYKEARAFFQQYLLDDNTVEAVAFRKS  
 AKEL LQLAAKTLNKLGVPFWLSSTGLGWYRQCNIIPYSKDVDLGIFIQDYKSDIILAFQDAGLPLKHKF  
 GKVE DSELELSFQKDDVKLDVFFFFYEETDHMWNGGTQAKTGKKFKYLPKFTLCWTEFVDMKVHVP  
 CETLEYIE ANYGKNQQGA

TRTRPLE - GFP Tag - V

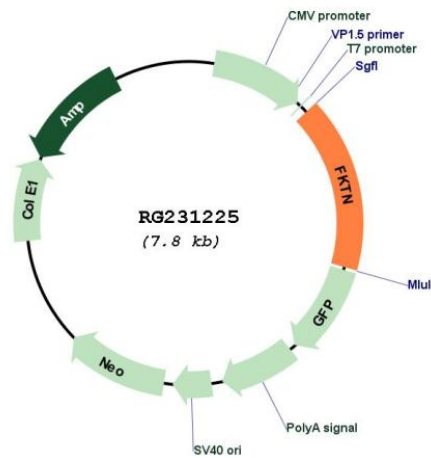
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001198963

<b>ORF Size:</b>	1290 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001198963.2</a>
<b>RefSeq Size:</b>	2504 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	2218
<b>UniProt ID:</b>	<a href="#">O75072</a>
<b>Cytogenetics:</b>	9q31.2
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	The protein encoded by this gene is a putative transmembrane protein that is localized to the cis-Golgi compartment, where it may be involved in the glycosylation of alpha-dystroglycan in skeletal muscle. The encoded protein is thought to be a glycosyltransferase and could play a role in brain development. Defects in this gene are a cause of Fukuyama-type congenital muscular dystrophy (FCMD), Walker-Warburg syndrome (WWS), limb-girdle muscular dystrophy type 2M (LGMD2M), and dilated cardiomyopathy type 1X (CMD1X). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2010]