

Product datasheet for **RG215400**

Fukutin (FKTN) (NM_006731) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fukutin (FKTN) (NM_006731) 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)



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ORF Nucleotide Sequence:

>RG215400 representing NM_006731
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTAGAATCAATAAGAACGTGGTTTTGGCCCTTTAACGCTGACAAGTTCTGCATTTCTGCTGTTTC
 AGTTGTACTACTACAAGCACTATTTATCAACAAAGAATGGAGCTGGTTTGTCAAAATCCAAGGAAGCCG
 AATTGGATTTGATAGCACACAGTGGCGTGCAGTTAAAAAATTTATTATGTTAACATCCAACCAAAATGTA
 CCAGTGTTCCTTATTGATCCTTTGATACTGGAATTGATTAATAAGAAGTTGAACAAGTCAAAAATACTT
 CTCATGGCTCTACTTCACAATGCAAGTTTTTCTGTGTTCCAAGAGACTTTACTGCATTTGCACTGCAGTA
 TCACCTATGGAAGAATGAGGAAGGCTGGTTTCGGATAGCTGAGAATATGGGATTTTCAGTGCCTAAAGATT
 GAGAGTAAAGATCCCGGCTAGACGGGATAGACTCACTCTCTGGAAGTAAATCCCGCTGCACTATATCT
 GCAAACGGCCACTCATGCGATCCACTTGGTAGTCTTTCATGAGAGGAGTGGCAACTACCTCTGGCAGCG
 CCACTTGAGACTTAAAGAACACATTGACAGGAAATTTGTTCCCTTCCAAAAGTTACAGTTTGGTCGTTAT
 CCAGGAGCTTTTGACAGGCCAGAGTTACAGCAAGTTACTGTTGATGGACTGGAAGTTCTCATTCCAAAGG
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 ATCTTTTCAGCAGTACCTTGATGATAACACTGTGGAAGCTGTGGCCTTTCCGGAAGAGTCAAAGGAATTA
 CTGCAACTAGCAGCGAAAAACATTAACAAAATTTGGGAGTACCATTCTGGCTGAGCAGTGGAACTTGCTAG
 GATGGTATCGACAATGCAACATTATTCCTTATAGCAAAGATGTTGACCTAGGAATTTTTATACAAGATTA
 CAAATCTGATATTATTTAGCATTTCAGGATGCAGGACTCCGCTCAAACACAAAATTTGGGAAGGTAGAA
 GACAGCTTGGAACTATCCTTCCAGGAAAAGATGATGTAAGAACTGATGTTTTTTCTTCTATGAAGAAA
 CTGATCACATGTGGAATGGAGGCACTCAGGCCAAAACAGGAAAAAATTCAAATACCTGTTTCCGAAGTT
 TACACTGTGCTGGACTGAGTTTGTAGACATGAAGGTCCATGTACCCTGTGAAACCCTCGAATACATTGAA
 GCCAACTATGGTAAAGACCTGGAAGATTCCTGTAAGACGTGGGACTGGAAGCGCTCTCCTCCAATGTGC
 AACCCAATGGAATCTGGCCTATTTCTGAGTGGGATGAGGTTATCCAGTTATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215400 representing NM_006731
 Red=Cloning site Green=Tags(s)

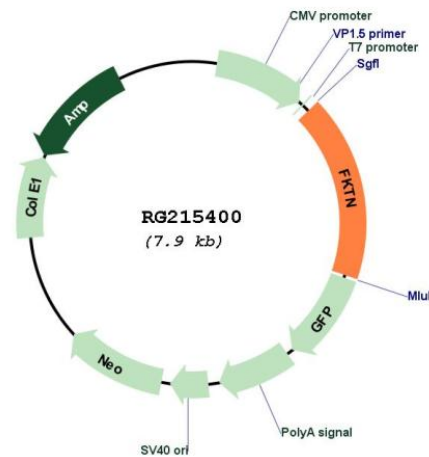
MSRINKNVVLLALLTLTSSAFLLFQLYYYKHYLSTKNGAGLSKSKGSRIGFDSTQWRVKKFIMLTSNQNV
 PVFLIDPLILEL INKNFEQVKNTSHGSTSQCKFFCVPRDFTAFALQYHLWKNEEGWFRIAENMGFQCLKI
 ESKDPRLDGIDSLSGTEIPLHYICKLATHAIHLVVFHERSGNYLWHGHLRLKEHIDRKFVPFQKLQFGRY
 PGAFDRPELQQVTVDGLEVLIPKDPMHFVEEVPHSRFIECRYKEARAFFQQYLDNTVEAVAFRKSAKEL
 LQLAAKTLNKLGVPFWLSSTGCLGWYRQCNIIPYSKDVDLGFIFIQDYKSDIILAFQDAGLPLKHKFGKVE
 DSLELSFQGGKDDVKLDVFFYYEETHMWNWGGTQAKTGKKFKYLPKFTLCWTEFVDMKVHVPCELEYIE
 ANYGKTWKIPVKTDWKRSPPNVQPNGIWIPISEWDEVIQLY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_006731

ORF Size: 1383 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:	<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:	<u>NM_006731.1</u> , <u>NP_006722.1</u>
RefSeq Size:	7349 bp
RefSeq ORF:	1386 bp
Locus ID:	2218
UniProt ID:	<u>O75072</u>
Cytogenetics:	9q31.2
Protein Families:	Transmembrane
Gene Summary:	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]