

Product datasheet for **SC115894**

Fukutin (FKTN) (NM_006731) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fukutin (FKTN) (NM_006731) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fukutin
Synonyms:	CMD1X; FCMD; LGMD2M; LGMDR13; MDDGA4; MDDGB4; MDDGC4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006731, the custom clone sequence may differ by one or more nucleotides

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ATGAGTAGAATCAATAAGAACGTGGTTTTGGCCCTTTAACGCTGACAAGTTCTGCATTTCTGCTGTTTT
AGTTGTACTACTACAAGCACTATTTATCAACAAAGAATGGAGCTGGTTTTGTCAAAATCCAAGGAAGCCG
AATTGGATTTGATAGCACACAGTGGCGTGCAGTAAAAAATTTATTATGTTAACATCCAACAAAATGTA
CCAGTGTTCCTTATTGATCCTTTGATACTGGAATTGATTAATAAGAACTTGAACAAGTCAAAAATACTT
CTCATGGCTCTACTTCACAATGCAAGTTTTCTGTGTTCCAAGAGACTTTACTGCATTTGCACTGCAGTA
TCACCTATGGAAGAATGAGGAAGGCTGGTTTTCGGATAGCTGAGAATATGGGATTTCAAGTGCCTAAAGATT
GAGAGTAAAGATCCCCGGCTAGACGGGATAGACTCACTCTCTGGAAGTAAATCCCCTGCACTATATCT
GCAAAGTGGCCACTCATGCGATCCACTTGGTAGCTTTTCATGAGAGGAGTGGCAACTACCTCTGGCACGG
CCACTTGAGACTTAAAGAACACATTGACAGGAAATTTGTTCCCTTCCGAAAGTTACAGTTTGGTCGTTAT
CCAGGAGCTTTTGACAGGCCAGAGTTACAGCAAGTTACTGTTGATGGACTGGAAGTTCTCATTCCAAGG
ATCCAATGCACTTTGTAGAAGAAGTACCACACTTAGGTTTATTGAGTGTAGGTATAAAGAAGCTCGAGC
ATTCTTTCAGCAGTACCTTGATGATAACACTGTGGAAGCTGTGGCCTTTCGGAAGAGTCAAAGGAATTA
CTGCAACTAGCAGCGAAAACATTAACAAATTTGGGAGTACCATTCTGGCTGAGCAGTGGAACTTGTCTAG
GATGGTATCGACAATGCAACATTATTCCTTATAGCAAAGATGTTGACCTAGGAATTTTTATACAAGATTA
CAAATCTGATATTTTATAGCATTTCAGGATGCAGGACTCCGCTCAAACAAAATTTGGGAAGGTAGAA
GACAGCTTGAACTATCCTTCCAGGGAAAAGATGATGTAACACTTGATGTTTTTTTTCTTCTATGAAGAAA
CTGATCACATGTGGAATGGAGGCACTCAGGCCAAAACAGGAAAAAATTCAAATACCTGTTTCCGAAGTT
TACACTGTGCTGGACTGAGTTTGTAGACATGAAGTCCATGTACCCTGTGAAACCCTCGAATACATTGAA
GCCAACTATGGTAAGACCTGGAAGATTCTGTAAAGACGTGGGACTGGAAGCGCTCTCCTCCAATGTGC
AACCCAATGGAATCTGGCCTATTTCTGAGTGGGATGAGGTTATCCAGTTATATTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006731 unedited</p> <pre> NTTTGTGGATTTTGTATACGACTCATATAGGGCGGCCGGAATCGGCACCAGGCAGCCT GCTGTTGAGTGAGAATTGAAAGGAAACACNNACTGAATGAGGAAAACTAACATACGGTC ATCAACATCCTTGTATAACCTAGTTTTTAAAAAATTGGATTTCAAAGAAAAAAAATTA TCTTCCTTTCAAATCCAAAAAGATGAAAACGACTGAGATACTTTCAAAGACAACCAAG TGAGCAGCACAGACTAATGAGTAGAATCAATAAGAACGTGGTTTTGGCCCTTTAACGCT GACAAGTTCTGCATTTCTGCTGTTTCAGTTGTACTACTACAAGCACTATTTATCAACAAA GAATGGAGCTGGTTTGTCAAATCCAAAGGAAGCCGAATTGGATTTGATAGCACACAGTG CGTGTCAGTTAAAAAATTTATTATGTTAACATCCAACCAAAATGTACCAGTGTTCCTTAT TGATCCTTTGATACTGGAATTGATTAATAAGAAGTTTGAACAAGTCAAAAATACTTCTCA TGGCTCTACTTCACAATGCAAGNTTTTCTGTGTTCCAAGAGACTTTACTGCATTTGCACT GCAGTACACCTATGGAAGAGAANGAAGGGCCTGGNTTCGGATAGCTGAAATATGGGAAT TCCAGTGCCTAAAGATTGAGAGTNAAGATCCCCGCTTAGACGGGATAGACTCACTCTCT GGAAGTAAATCCCCTGCATATATCTNGCAACTGGCCCTTCATGCATCCCTNTTGGNA AGTCTTATGAAAAGGAGTGGCAACTACCTCTGGCACGGNCACTTGAGACTTAAAGACA CTTGCCAGGAAAAATTTGTCTTTTCAAGGACACAGAAAGGGGGGCGTTATCCAGGGAC TTTTTGCAGGCCAGAGTACAGCAGGTACGTGTGT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006731 unedited</p> <pre> ATTTTCATTNTNCCTTTTTAACATGATACAGGCATTCATCAGCATAGATAATTAATGAAA TTAAGTATCCAGATTTCTTCCCTCTCCAATCATGGCTTATATCTAATTTCACTAACAAG GAGGTAAGATTTACATCTAGGAAAGGCTAGAATATTGAAAAAGAAGTCCAGGGGAGAGC AGGTACCAAATCTAGTGAAGTACAGTAACTGCTTGGGACCAGCAAAGTGGTAGCATAT GGGATAATATTAGGAGACAAGTCTTAACCAAGAAAATGAAAATACAAGTTCTATTGAGA GAAGGAGGCAAAGTGGTAAATGTCTCTGAATTCACAAACCATATATTGTATTAATGAATA TAATTAATGTATAATTGTATTAATGACTTGATACAATTTTTTTTTTTTCTTAAGCAAATTC GTCATGCAATCTTTTGTAAAGGAATATGTTCTGACCCATGGTTTCTATAATTCATTT GAAGATTAGAAAAGAAACATGGAAGTAAAGAAATGACATTTCTTGTAGTACTTACTTAAT CCTAGGCCCTGAGGCTAAGAACTGTACTTTATTTAATCCCCCTAAAACCCTTAGAAGT ATGTATCATTTCCCCAGTTCATAATGTGGGAAATTGAGACTGAAAGGGCCCCCACCATA AATCCCACATGATTAAGCCGAAATTCAAATCATGCCTACCTCAAAGCTTGGGGTCTTTT CATGGCAACACATTGCCCTCCCTTGGTGAGATGTACCAGGGATCTACCCCATGTCCTTAT GATATCGGCACACACCGGGAAGGAGGGACCTCGCCTGGAATTTCCCTAGAAATTCCTT TCCCTGGCCACCCTGAGCGTCTTCATGGCTTGAATTTTCCACCTCTCCTTCCCTCT CCAGGGGTAATCTGCCCCCTGCGTGGGCGGN </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006731
Insert Size:	6510 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).

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_006731.1](#), [NP_006722.1](#)

RefSeq Size: 7349 bp

RefSeq ORF: 1386 bp

Locus ID: 2218

UniProt ID: [O75072](#)

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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 4 encode the same isoform (a).