

## Product datasheet for **SC112266**

### FKRP (NM\_024301) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FKRP (NM_024301) Human Untagged Clone
Tag:	Tag Free
Symbol:	FKRP
Synonyms:	FKTR; LGMD2I; LGMDR9; MDC1C; MDDGA5; MDDGB5; MDDGC5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024301, the custom clone sequence may differ by one or more nucleotides

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ATGCGGCTCACCCGCTGCCAGGCTGCCCTGGCGGCCGCCATCACCTCAACCTTCTGGTCTCTTCTATG
TCTCGTGGCTGCAGCACCAGCCTAGGAATCCCGGGCCCGGGGGCCCGTTCGTGCCTCTGCTGCCGGCC
CCGTGTACCCGTCTGGTGCAGGAGTTCGAGGCATTTGACAACCGGTTGCCGAGCTGGTAGACTCCTTC
CTGCAGCAAGACCCAGCCAGCCGCTGGTGGTGGCAGCCGACACGCTCCCTACCCGCCCTGGCCCTGC
CCCGCATCCCCAAGTGCCTGGCGTCTCCAGCCGCCCTGGACCGCCAGCCGAGCCTCGCGCC
GGAGACCTACGTGGCCACCGAGTTGTGGCCCTAGTACCTGATGGGGCGGGGCTGAGGCACCTGGCCTG
CTGGAGCGCATGGTGGAGGCGCTCCGCGCAGGAAGCGCACGTCTGGTGGCCGCCCGGTTGCCACGGCCA
ACCCTGCCAGGTGCCTGGCCCTGAACGTACGCCTGCGAGAGTGGACCGCCGCTATGGCGCAGCCCCGC
CGCGCCCCGCTGCGACGCCCTGGACGGAGATGCTGTGGTCTCCTGCGCGCCCGGACCTCTTAACTC
TCGGCGCCCTGGCCCGCCGGTGGGCACCAGCCTCTTCTGCAGACCGCCCTTCGCGGCTGGGCGGTGC
AGCTGCTGGACTTGACCTTCGCCGCGGCGGCCAGCCCCGCTGGCCACGGCCACGCGCGCTGGAAGGC
TGAGCGGAGGGACGCGCTCGCGGGGCGGCGTCTCCGCGCGCTGGGCATCCGCTAGTGGAGTGGGAA
GGCGGGCGGCTGGAGTGGTTCGGCTGCAACAAGGAGACCAGCGCTGCTCGGAACCGTGGTGGGCGACA
CGCCCCCTACCTCTACGAGGAGCGCTGGACGCCCTTGCTGCCTGCGCGCGCTGCGCGAGACCGCCG
CTATGTGGTGGGCGTCTGGAGGCTGGGGCGTGGCGTACTGGCTCGAGGGCGGCTCACTGCTGGGGG
GCCCGCCACGGGGACATCATCCCATGGGACTACGACGTGGACCTGGGCATCTACTTGGAGGACGTGGGCA
ACTGCGAGCAGCTGCGGGGGCAGAGGCCGGCTCGGTGGTGGATGAGCGCGGCTTCGTATGGGAGAAGGC
GGTCGAGGGCGACTTTTTCCGCGTGCAGTACAGCGAAAGCAACCACTTGACGTGGACCTGTGGCCCTTC
TACCCCCGCAATGGCGTCATGACCAAGGACACGTGGCTGGACCACCGGCAGGATGTGGAGTTTCCGAGC
ACTTCTGCAGCCGCTGGTGCCTTGCCTTTGCCGGCTTCGTGGCGCAGGCGCTAACAACTACCGCCG
CTTCTGGAGCTCAAGTTCGGGCCCGGGTTCATCGAGAACCCCAAGTACCCCAACCGGCGACTGCTGAGT
CTGACGGGAAGCGCTGA

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_024301 unedited  
 NNGGTCCTTACCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCT  
 ATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAG  
 CGGCCGCGAATTCGGCACGAGGCTTCGGCCCCATGCGGCTCACCCGCTGCCAGGCTGCC  
 TGGCGGCCGCCATCACCTCAACCTTCTGGTCTTCTATGTCTCGTGGCTGCAGCACC  
 AGCTTAGGAATCCCGGGCCCGGGGGCCCGTCTGCTGCCGGCCCGGTGTCA  
 CCGTCTGGTGGGGAGTTCGAGGCATTTGACAACGCGGTGCCGAGCTGGTAGACTCCT  
 TCCTGCAGCAAGACCCAGCCAGCCCGTGGTGGTGGCAGCCGACACGCTCCCTACCCGC  
 CCCTGGCCCTGCCCGCATCCCCAACGTGCGTCTGGCGTCTCCAGCCCGCCCTGGACC  
 GGCCAGCCGACGCTCGCGCCCGGAGACCTACGTGGCCACCGAGTTTGTGGCCCTAGTAC  
 CTGATGGGGCGCGGGCTGAGGCACCTGGCTGCTGGAGCGCATGGTGGAGGCGCTCCGCG  
 CAGGAAGCGCACGTCTGGTGGCCCGCCGGTTGCCACGGCCAACCCTGCCAGGTGCTGG  
 CCCTGAACGTGAGCTGCGAGAGTGGACCGCCCGCTATGGCGAGCCCCCGCCGNGCCCC  
 GCTGCGACGCCCTGGACGGAGATGCTGTGGTCTCTGCGCGCCCGGACCTCTTAACCT  
 CTGGCGCCCCCTGCCCGCGGGGGCACCAGCCTTCTGACAGACCCCTCGCGCTGGCCG  
 TGACCTGCTGACTTGACTTCCCGGGNGCGAGCCCCGTGGCCCGCCACCCGCTGAAG  
 GCTGACGCAGACCGCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_024301 unedited  
 NCCGTATACTATGNACCGCGCCGATTCTANGATCGGTTTTTTTTTTTTTTTTTTTTAAAA  
 TGGAAATAATTTAAGCTTTATTACTAACATACAGATAATAGTATCTGTATATTTATAAA  
 TAAATATACACATATTGGAATACATGCCCAAATACCATTATTCTTAGGTGCATAATCA  
 AATAAGGAAGGCTGCCATTGCTTTCACCTGCTAAGTGGGTCTCCAAGCCCCTCTGGGGA  
 CCATGACTAGAGAGGGGCATAGTGGTAAGACAATTGTGGCTCCAGAGCCTGACCACCT  
 GGGTTCAAGCCCCGATCTGCCCTTCCTAAGTGCCTGACCTTGAGCAAGTGACTTCAC  
 GATTCTGGCCTCAGCTTTTTCATCTGTGTAATGAAAATAATAGCAGCTGTCACTTCAAAG  
 GGCTGAGGTGAGGGACGCATTAATTGATCCAGGTGAAACTGAGAATGGTGCCTGGTAC  
 CCAGTAAGTGCTCAGTGAGTGTGAGCTATGGTTATTGTCTACTGCCGTGCAAGTGGGG  
 AATTAGGTGCAGACAGCTGAAATAATGAGGTATTAGTCATGAGTGGAGTGCATTCAA  
 AATCGGGTCTTTTTCTTTTTAAAAATAGAGACAGGCTTGGCATGTTGCCGAAGCTGG  
 TCTCAGACTCCTGGGCTCAAACGATCCTCCACCTCGGCCTCTCAAATGCTGGGAGTAC  
 ACGCGTGAGACCCCGCGCCCGGGCCAAAACCCGGTTTTTTGACCACCAACCCCTCGGAG  
 CTCTGAGCATTTTCTTCTGGAAGACGAAAAAATTCTTTTCAATCTTGATATAACAAT  
 TAAGAAAACATGCCGGGCACAGGGCTCTTCCAAGAAGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_024301

**Insert Size:**

3000 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\\_024301.2](#), [NP\\_077277.1](#)

**RefSeq Size:** 3422 bp

**RefSeq ORF:** 1488 bp

**Locus ID:** 79147

**UniProt ID:** [Q9H9S5](#)

**Cytogenetics:** 19q13.32

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a protein which is targeted to the medial Golgi apparatus and is necessary for posttranslational modification of dystroglycan. Mutations in this gene have been associated with congenital muscular dystrophy, cognitive disability, and cerebellar cysts. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Oct 2008]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.