

## Product datasheet for **RG200941**

### **FKRP (NM\_024301) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FKRP (NM_024301) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FKRP
Synonyms:	FKTR; LGMD2I; LGMDR9; MDC1C; MDDGA5; MDDGB5; MDDGC5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200941 representing NM\_024301  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCGGCTCACCCGCTGCCAGGCTGCCCTGGCGGCCGCCATCACCTCAACCTTCTGGTCTCTTCTATG  
 TCTCGTGGCTGCAGCACCAGCCTAGGAATTCCTGGGCCCGGGGGCCCGTCTGCTGCGCGCC  
 CCGTGTACCCGCTCCTGGTGCAGGAGTTCGAGGCATTTGACAACGCGGTGCCCGAGCTGGTAGACTCCTTC  
 CTGCAGCAAGACCCAGCCAGCCGCTGGTGGTGGCAGCCGACACGCTCCCTACCCGCCCTGGCCCTGC  
 CCCGCATCCCAACGTGCGTCTGGCGTCTCCAGCCGCCCTGGACCGCCAGCCGAGCCTCGCGCC  
 GGAGACCTACGTGGCCACCGAGTTTGTGGCCCTAGTACCTGATGGGGCGCGGGCTGAGGCACCTGGCCTG  
 CTGGAGCGCATGGTGGAGGCGCTCCGCGCAGGAAGCGCACGTCTGGTGGCCGCCCGGTTGCCACGGCCA  
 ACCCTGCCAGGTGCTGGCCCTGAACGTACGCTGCGAGAGTGGACCGCCGCTATGGCGCAGCCCCGC  
 CGGCCCCCGCTGCGACGCCCTGGACGGAGATGCTGTGGTCTCTGCGCGCCCGGACCTCTTCAACCTC  
 TCGGCGCCCTGGCCCGCGGTGGGCACCGCCTCTTCTGCAGACCGCCCTTCGCGGGTGGGCGGTGC  
 AGCTGCTGGACTTGACCTTCGCCGCGGCCGCCAGCCCCGCTGGCCACGGCCACGCGCGCTGGAAGGC  
 TGAGCGCAGGGACGCGCTCGCGGGCGCGCTGCTCCGCGCGCTGGGCATCCGCCTAGTGGAGTGGGAA  
 GGCGGGCGGTGGAGTGGTTCCGCTGCAACAAGGAGACCAGCGCTGCTTCGGAACCGTGGTGGGCGACA  
 CGCCCGCTACCTCTACGAGGAGCGTGGACGCCCCCTGCTGCTGCGCGCGCTGCGCGAGACCGCCCG  
 CTATGTGGTGGGCGTCTGGAGGCTGCGGGCGTGCCTACTGGCTCGAGGGCGGCTACTGCTGGGGCC  
 GCCCGCCACGGGACATCATCCATGGGACTACGACGTGGACCTGGGCATCTACTGGAGGACGTGGGCA  
 AGTTCGAGGCGACTTTTTCCGCGTGCAGTACAGCGAAAGCAACCACTTGCACGTGGACCTGTGGCCCTTC  
 TACCCCGCAATGGCGTCATGACCAAGGACACGTGGCTGGACCACCGGCAGGATGTGGAGTTTCCGAGC  
 ACTTCTGCAGCCGCTGGTGGCCCTGCCCTTTCGCGGCTTCGTGGCGCAGGCGCCTAACAACTACCGCCG  
 CTTCTGGAGCTCAAGTTCGGGCCCGGGTTCATCGAGAACCCCAAGTACCCCAACCGGCACTGCTGAGT  
 CTGACGGGAAGCGGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200941 representing NM\_024301  
 Red=Cloning site Green=Tags(s)

MRLTRCQAALAAAITLNLLVLFYVSWLQHQPNSRARGPRRASAAGPRVTVLVREFEAFDNAVPELVDSF  
 LQQDPAQPVVVAADTLPYPPLALPRIIPNVRLALLQPALDRPAAASRPETYVATEFVALVPDGAAREAPGL  
 LERMVEALRAGSARLVAAPVATANPARCLALNVSLREWTARYGAAPAAPRCDALDGDVAVLLRARDLFNL  
 SAPLARPVGTSFLQALRGWAVQLLDLTFAAARQPPLATAHARWKAEREGRARRAALLRALGIRLVSWE  
 GGRLEWFGCNKETTTRCFGTVVGDTPAYLYEERWTPPCCLRALRETARYVVGVEAAGVRYWLEGGSLIGA  
 ARHGDIIIPWDYDVLGIYLEDVGNCEQLRGAEAGSVVDERGFVWEKAVEGDFFRVQYSES NHLHVDLWPF  
 YPRNGVMTKDWTLDHRQDVEFPEHFLQPLVPLPFAGFVAQAPNNYRRFLELKFPGVVIENPQYPNPALLS  
 LTGSG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_024301

**ORF Size:** 1485 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:** [NM\\_024301.5](#)

**RefSeq Size:** 3349 bp

**RefSeq ORF:** 1488 bp

**Locus ID:** 79147

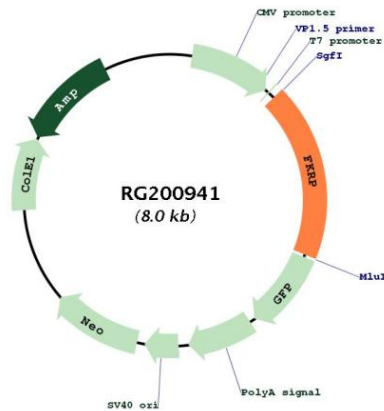
**UniProt ID:** [Q9H9S5](#)

**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]

**Product images:**



Circular map for RG200941