

Product datasheet for **MG207921**

Fkrp (NM_173430) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fkrp (NM_173430) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fkrp
Synonyms:	A830029B19Rik; AI842067; AI847300; LGMD1I; MDC1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207921 representing NM_173430
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGCTCACCCGCTGCTGGGCTGCCCTGGCAGCCGCCATCATCCTCAACCTCCTAGTCTTCTTCTATG
 TGTGATGGCTACAACACCAGCCAGAACTCCCGGGCCCGGGTCCCGCCGGACTTCTGCCATTGGCCC
 CCGAGTACCGTCTGATTTCGGGAATTTGAGGCTTTTGACAACGCGGTGCCAGAGCTAGTGGATTCTTTT
 TTGACAGCAGACCCAGCCAGCCGCTGGTGTAGTGGCGGCCGACACTCCCTTACCCACCCCTGGCCTTGC
 CTCGCATCCCAACGTTTCGCTGCTCTGCTCCAGCCAGCCCTGGACCGCCAGCGGGCCCTCGCGCC
 GGAGACCTACGTAGCCACCGAGTTTGTGGCTCTAGTGCCTGATGGAGCGCGGGCCGAGTACCAGGCCAC
 CTGGAGCGAATGGTGGAGGCGCTCCGAGGGAGCAGCGCGCCTAGTGGCCGCCCGGTCGCCACCGCCA
 ACCCAGCGCGGTGCTAGCTCTGAACGTCAGCCTGCGGGAGTGGACTGCGCGCTACGACCCAGCTCCAG
 CGCGCCCGCTGCGACGCTTTGGATGGCAGCCTGTGCTGCTGATGCGCTCCCGCAGCTCTTCAACCTC
 TCGGTGCCCTGGCGCGCCGCTGGCCACCAGCCTCTTCTACAGACCGCCTGCCGCGGCTGGGCAGTGC
 AGCTGCTGGACTTGACCTTCGCCGCGGCCGCCAGCCACCGCTGGCCACCGCCACGCGCGCTGGAAGGC
 GGAACGTGAGGGGCGCTCACGGAGAGCGGCGCTGCTGCGCTCGTTGGAAATCCGCTCGGTGAGTGGGAA
 GGCGGGCGGCTAGAGTGGTTTGGCTGCAGCAAGGAGAGCGCGCGCTGCTTCGGTACGGTGGCGGGCGACA
 CACCCGCTACCTGTATGAGGGCCGCTGGACCCACCTTGTTCCTGCGCGCGTGCAGGAGACTGCGCG
 CTACGTGGTGGGCGTCTGGAGGCGGGCGTGCCTACTGGTTGGAGGGCGGCTCGTCTGGGTGCA
 GCTCGCCACGGCAGCATCATCCCTTGGGACTACGACGTAGACTTGGGCATCTACCTGGAGGACGTGGGCA
 AGTGGAGCAGTTGCGGGGTGCCAAGCTGGCTCGGTAGTGGATGAACGCGGCTTTGTGTGGAGAAGG
 GGTGGAGGGCGACTTCTCCGAGTACAGTACAGTGAACAACACCTGCACGTGGACCTGTGGCCCTTT
 TACCCCGCAATGGGTTATGACCAAGGACACGTGGCTGGACCACCGGCAGGATGTTGAGTCCAGAGC
 ACTTCTGCAGCCACTTGTCCCTGCCCCTTTCGCGGTTTCATGGCACAGGCCCTAACAACTACCGCCG
 CTTCTGGAGCTGAAGTTTGGGCTGGGTCATCGAGAACCCGGAGTACCCCAACCCGCACTCTTAAGC
 TTGACAGGCGGT

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207921 representing NM_173430
 Red=Cloning site Green=Tags(s)

MRLTRCWAALAAIILNLLVFFYVSWLQHQPNSRARGPRRTSAIGPRVTVLIREFEAFDNAVPELVDSF
 LQQDPAQPVVVAADTLPPPLALPRIPNVRLALLQPALDRPAAASRPETYVATEFVALVPDGARAESPGH
 LERMVEALRGSSARLVAAPVATANPARCLALNVSLREWTARYDPAPSAPRCDALDGDVLLMRSRDLFNL
 SVPLARPLATSLFLQTALRGWAVQLLDLTFAAARQPPLATAHARWKAEREGRSRAALLRSLGIRLVSW
 GGRLEWFGCSKESARCFGTVAGDTPAYLYEGRWTPPCCLRALRETARYVVGVLAAAGVRYWLEGGSLG
 ARHGDIIIPWDYDVLGIYLEDVGNCEQLRGAEAGSVVDERGFVWEKAVEGDFFRVQYSENHLHVDLWPF
 YPRNGVMTKDWTLDHRQDVEFPEHFLQPLVPLPFAGFMAQPNNYRRFLELKFPGVGIENPEYPNPALLS
 LTGG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_173430

ORF Size: 1482 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_173430.2](#), [NP_775606.1](#)

RefSeq Size: 2817 bp

RefSeq ORF: 1485 bp

Locus ID: 243853

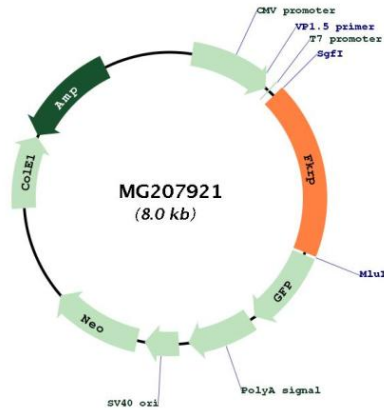
UniProt ID: [Q8CG64](#)

Cytogenetics: 7 A2

Gene Summary:

Catalyzes the transfer of CDP-ribitol to ribitol 5-phosphate previously attached by FKTN/fukutin of to the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1) (By similarity). This constitutes the second step in the formation of the ribose 5-phosphate tandem repeat which links the phosphorylated O-mannosyl trisaccharide to the ligand binding moiety composed of repeats of 3-xylosyl-alpha-1,3-glucuronic acid-beta-1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207921