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Product datasheet for MR207921

Fkrp (NM_173430) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fkrp (NM_173430) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fkrp
Synonyms:	A830029B19Rik; AI842067; AI847300; LGMD1I; MDC1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR207921 representing NM_173430
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCTCACCCGCTGCTGGGCTGCCCTGGCAGCCGCCATCATCCTCAACCTCCTAGTCTTCTTCTATG
TGTCATGGCTACAACACCAGCCCAGAAACTCCCGGGCCCGGGGTCCCCGCCGGACTTCTGCCATTGGCCC
CCGAGTCACCGTCCTGATTCGGGAATTTGAGGCTTTTGACAACGCGGTGCCAGAGCTAGTGGATTCCTTT
TTGCAGCAGGACCCAGCCCAGCCCGTGGTAGTGGCGGCCGACACACTCCCTTACCCACCCCTGGCCTTGC
CTCGCATCCCCAACGTTCGCCTGGCTCTGCTCCAGCCAGCCCTGGACCGGCCAGCGGCGGCCTCGCGCCC
GGAGACCTACGTAGCCACCGAGTTTGTGGCTCTAGTGCCTGATGGAGCGCGGGCCGAGTCACCAGGCCAC
CTGGAGCGAATGGTGGAGGCGCTCCGAGGGAGCAGCGCGCGCCTAGTGGCCGCCCCGGTCGCCACCGCCA
ACCCAGCGCGGTGCCTAGCTCTGAACGTCAGCCTGCGGGAGTGGACTGCGCGCTACGACCCAGCTCCCAG
CGCGCCCCGCTGCGACGCTTTGGATGGCGACGCTGTGCTGCTGATGCGCTCCCGCGACCTCTTCAACCTC
TCGGTGCCCCTGGCGCGGCCGCTGGCCACCAGCCTCTTCCTACAGACCGCCCTGCGCGGCTGGGCAGTGC
AGCTGCTGGACTTGACCTTCGCCGCGGCGCGCCAGCCACCGCTGGCCACCGCCCACGCGCGCTGGAAGGC
GGAACGTGAGGGGCGCTCACGGAGAGCGGCGCTGCTGCGCTCGTTGGGAATCCGTCTGGTGAGCTGGGAA
GGCGGGCGGCTAGAGTGGTTTGGCTGCAGCAAGGAGAGCGCGCGCTGCTTCGGTACGGTGGCGGGCGACA
CACCCGCCTACCTGTATGAGGGCCGCTGGACCCCACCTTGTTGCCTGCGCGCGCTGCGCGAGACTGCGCG
CTACGTGGTGGGCGTGCTGGAGGCGGCGGGCGTGCGCTACTGGTTGGAGGGCGGCTCGCTGCTGGGTGCA
GCTCGCCACGGCGACATCATCCCTTGGGACTACGACGTAGATCTGGGCATCTACCTGGAGGACGTGGGCA
ACTGCGAGCAGTTGCGGGGTGCCGAAGCTGGCTCGGTAGTGGATGAACGCGGCTTTGTGTGGGAGAAGGC
GGTGGAGGGCGACTTCTTCCGAGTACAGTACAGTGAGAACAACCACCTGCACGTGGACCTGTGGCCCTTT
TACCCCCGCAATGGGGTTATGACCAAGGACACGTGGCTGGACCACCGGCAGGATGTTGAGTTCCCAGAGC
ACTTCCTGCAGCCACTTGTCCCCCTGCCCTTTGCGGGTTTCATGGCACAGGCCCCTAACAACTACCGCCG
CTTCCTGGAGCTGAAGTTTGGGCCTGGGGTCATCGAGAACCCGGAGTACCCCAACCCCGCACTCTTAAGC
TTGACAGGCGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207921 representing NM_173430
Red=Cloning site Green=Tags(s)

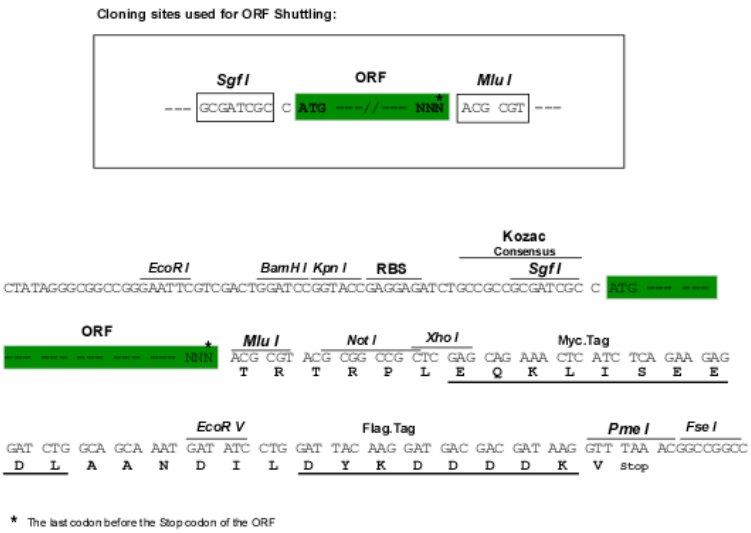
MRLTRCWAALAAAIILNLLVFFYVSWLQHQPRNSRARGPRRTSAIGPRVTVLIREFEAFDNAVPELVDSF
LQQDPAQPVVVAADTLPYPPLALPRIPNVRLALLQPALDRPAAASRPETYVATEFVALVPDGARAESPGH
LERMVEALRGSSARLVAAPVATANPARCLALNVSLREWTARYDPAPSAPRCDALDGDAVLLMRSRDLFNL
SVPLARPLATSLFLQTALRGWAVQLLDLTFAAARQPPLATAHARWKAEREGRSRRAALLRSLGIRLVSWE
GGRLEWFGCSKESARCFGTVAGDTPAYLYEGRWTPPCCLRALRETARYVVGVLEAAGVRYWLEGGSLLGA
ARHGDIIPWDYDVDLGIYLEDVGNCEQLRGAEAGSVVDERGFVWEKAVEGDFFRVQYSENNHLHVDLWPF
YPRNGVMTKDTWLDHRQDVEFPEHFLQPLVPLPFAGFMAQAPNNYRRFLELKFGPGVIENPEYPNPALLS
LTGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9027_c03.zip

Restriction Sites: SgfI-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

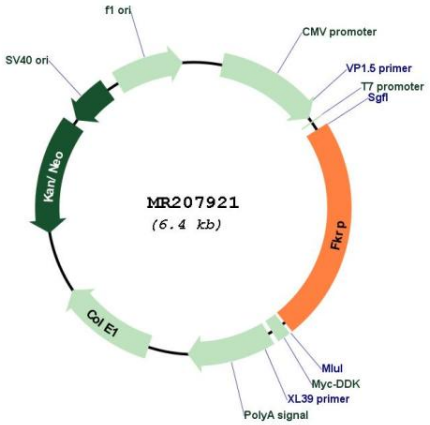
UniProt ID: Q8CG64

Cytogenetics: 7 A2

MW: 55.3 kDa

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 MR207921