

Product datasheet for MR222183

Lrp4 (NM_172668) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrp4 (NM_172668) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrp4
Synonyms:	6430526J12Rik; D230026E03; mdig; Megf7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222183 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

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CGCATCTCCGTGCCAACCTTAATGGCAGCAATGTAGAGGAGGTGGTGTCTACTGGGCTAGAGAGCCCAG
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Protein Sequence:

>MR222183 protein sequence
 Red=Cloning site Green=Tags(s)

MRRWWGALLL GALLCAHGIASSLEACGRSHFTCAVSALGECTCIPAQWQCDGNDGCDHSDGCTLPT
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 DEPRAIAVFPKGYLFWTDWGHI AKIERANLDGSERKVLINTDLGWPNGL TLDYDTRRIYWVDAHLDRIE
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 AEWGDLKQLRSSRGLLRDHVCMKTDTVSIQASSGSLDDTETEQLLQEEQSECSSVHTAATPERRGSLPD
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Restriction Sites:

Sgfl-MluI

RefSeq ORF: 5718 bp

Locus ID: 228357

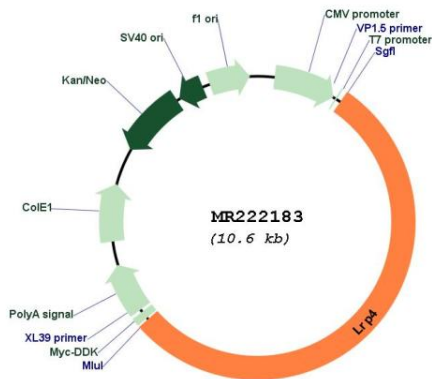
UniProt ID: [Q8VI56](#)

Cytogenetics: 2 50.63 cM

MW: 212 kDa

Gene Summary: Mediates SOST-dependent inhibition of bone formation. Functions as a specific facilitator of SOST-mediated inhibition of Wnt signaling. Plays a key role in the formation and the maintenance of the neuromuscular junction (NMJ), the synapse between motor neuron and skeletal muscle. Directly binds AGRIN and recruits it to the MUSK signaling complex. Mediates the AGRIN-induced phosphorylation of MUSK, the kinase of the complex. The activation of MUSK in myotubes induces the formation of NMJ by regulating different processes including the transcription of specific genes and the clustering of AChR in the postsynaptic membrane. Alternatively, may be involved in the negative regulation of the canonical Wnt signaling pathway, being able to antagonize the LRP6-mediated activation of this pathway. More generally, has been proposed to function as a cell surface endocytic receptor binding and internalizing extracellular ligands for degradation by lysosomes. Plays an essential role in the process of digit differentiation (PubMed:16517118).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222183