

Product datasheet for **MC217359**

Lrp4 (NM_001145857) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrp4 (NM_001145857) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lrp4
Synonyms:	6430526J12Rik; D230026E03; mdig; Megf7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217359 representing NM_001145857
Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGGTGGTGGGGCGCTGCTGCTTGGCGCCCTGCTCTGCGCACACGGAATAGCCAGCAGTCTGG
AGTGTGCATGTGGTCGGAGCCACTTCACATGTGCGGTGAGCGCGCTTGGCGAATGTACCTGTATCCCGC
CCAGTGGCAGTGTGATGGAGACAATGACTGTGGAGACCACAGCGATGAGGATGGCTGTACCTGCCTACC
TGCTCCCCCTGGACTTCCACTGTGACAACGGCAAGTGCATCCGACGCTCCTGGGTGTGTGACGGGGACA
ATGACTGTGAAGTACTCTGATGAGCAGGACTGTCCCCCGGGAGTGTGAGGAGGACGAATCCCTG
CCAGAACGGCTACTGCATTCGGAGTCTGTGGCACTGTGATGGGGACAACGACTGTGGTGAACAAGTGC
GAGCAATGCGACATGCGCAAGTGTCTCAGACAAGGAATCCGCTGCAGCGACGGCAGCTGCATTGCTGAGC
ATTGGTACTGCGATGGTACACAGACTGCAAAGATGGCTCTGATGAGGAAAGCTGCCCTCAGCAGTACC
CTCTCCTCCTTGAACCTGGAAGAGTTCAGTGCCTATGGCCGCTGCATCCTCGACATCTACCACTGT
GACGGAGATGACGACTGTGGAGACTGGTACAGCAGTCTGACTGCTCCTCCACAGCCCTGCCGCTCTG
GGGAATTCATGTGTGACAGTGGCCTGTGCATCAACTCGGGCTGGCGCTGTGATGGTGATGCAGACTGTGA
TGACCAGTCTGATGAACGCAACTGCACCACCTCCATGTGCACAGCCGAACAGTTTCGCTGTCCGGTACGGC
CGTTGGCTCCGCTGTCTGGCGCTGTGATGGGGAGGATGACTGTGCGGACAACAGCGATGAAGAAAAC
GTGAGAACACAGGAAGCCCCAGTGCCTCTGACCAGTTCCTGTGTGGAAACGGGCGCTGATTGGGCA
GAGGAAGCTGTGAACGGGATCAACGACTGCGGTGACAGCAGTGCAGAAAGTCCACAGCAGAAGTGTCCG
CCCCGGACGGGTGAGGAGAACTGCAATGTTAAACCGGTGGCTGTGCCAGAAAGTGTGATGGTGGCAG
GGCAGTGCAGTGTACCTGCCACACAGGCTACCGGCTCACAGAGGATGGGAGAACGTGCCAGGATGTA
CGAATGTCTGAGGAGGGTACTGCAGCCAGGGCTGCACAACACTGAAGGGGCTTCCAGTGTGGTGT
GAAGCAGGGTATGAGCTACGGCCGATCGGCGCAGCTGCAAGCTCTGGGGCCAGAACCTGTGCTACTGT
TTGCCAATCGTATCGACATCCGGCAGGTGCTCCCGCACCCTCCGAGTACACGCTGCTACTGAACAACCT
GGAGAACGCCATTGCCCTCGACTTTCATCACCGCGGGAGCTGGTCTTCTGGTGGATGTACCCTGGAC
CGCATCTCCGTGCCAACCTAATGGCAGCAATGTAGAGGAGGTGGTGTCTACTGGGCTAGAGAGCCAG
GTAGGAAAACAAGGCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1650_a03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001145857

Insert Size: 1560 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:	<ol style="list-style-type: none">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_001145857.1 , NP_001139329.1
RefSeq Size:	3246 bp
RefSeq ORF:	1560 bp
Locus ID:	228357
UniProt ID:	Q8VI56
Cytogenetics:	2 50.63 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1.</p>