

Product datasheet for MC229604

Lrrc7 (NM_001291452) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc7 (NM_001291452) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lrrc7
Synonyms:	AK122498; densin; mKIAA1365
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229604 representing NM_001291452 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCACTGCTTGGAGATGACCAACAAACGGAAGCTCATTGGCCGCTGGTGCCATGCCGCTGCTCCGTG
 GAGAGGAAGAGATCATCTCAGTGTGGATTACTCCCACTGCAGCCTGCAACAGGTGCCAAGGAGGTCTT
 CAACCTCGAACGCACACTAGAAGAGCTCTATCTGGATGCCAATCAGATTGAGGAGCTACCTAAGCAATTG
 TTCAACTGTCAAGCTCTACGGAACTAAGCATTCTGATAATGACCTCTCAAGTCTGCCAACCTCCATTG
 CTAGCCTAGTTAACCTGAAAGAACTCGACATCAGTAAAAACGGGTACAAGAATTTCCAGAAAACATAAA
 GTGCTGTAAGTGTAAACCATAATTGAAGCCAGTGTCAATCCCATTTCTAAACTACCCGATGGCTTCACG
 CAGCTTCTTAACCTGACCCAGCTCTACCTGAATGACGCATTCTCGAATTTCTTCCAGCTAATTTTGGA
 GACTTGTCAAATTCGCAATACTGGAGTTAAGAGAAAATCACTTGAAGAACTCTACCAAGTCAATGCACAA
 GTTAGCCAGCTGGAAAGACTTGACCTAGGCAATAATGAATTCAGCGAGCTGCCTGAAGTTCTGGATCAA
 ATACAGAATTTGAGGGAGCTGTGGATGGATAACAATGCATTGCAAGTGTGCCTGGGTCTATAGGGAAGT
 TAAAGATGTTGGTATACCTGGATATGTCAAAAAACAGGATAGAAACGGTTGATATGGATATTTCTGGATG
 TGAAGCCCTCGAGGACCTCTTACTATCATCCAATATGTTGCAACAGCTGCCTGACTCAATAGGATTGCTG
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 CAGACAGCGACAGCTTCAACCCACCCTGTGGGAGGAGCAGAGACAACAGCGCATGACTGTTGCCTTTGA
 ATTTGAGGATAAAAAAGAAGATGACGAAAGTGCTGGGAAAGTTAAGGCTCTCTCCTGCCAAGCCCTCG


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GACAGGGGCCAGCGTGGGATTACTCTCCAACCTGCCAGGCTGTCTGGCGATTGCTGCACACCATGGGCCA
GGTGTGATCAGCAGATCCAAGATATGCCCGTCCCCCAGAGTGACCCCGAGCTGGCATGGGGTTGTATAAG
TGGCCTCCAGCAGGAGAGGAGCATGTGTCTCCATTGCCAGTGGCAGCACAGTCCACCACTCTTCCCTCT
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CCCTCTGTACCCACCCAACTTGTCTGCTAGGGAAGGACAAAAAGAATCAACTGATGAGTCTGAAGT
TGACAAAACCTCACTGTCTGAATAACAGTGTCTCCTCAGGCACCTACTCAGACTACTCGCCCTCCCAAGCT
TCCTCGGCATCTCTAACACCCGGATGAAAGTGGGGTCTTGCAGGCAACAGCTAAAGATGCCGTCCATA
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GCAAGAAAGGATTGTGCGGTGTTCCCTGGAACCTGGAGCAGTCCACACACAGACACACACCAGAAACAGAA
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CTTCCAAATTAGAAACAACCCCTACTACAGTCCCTTGCCTGAAAGAAAAGACCACATGAAGGAGCCTAC
AGAGACACCAGGTCCCTTTTCTCCGGGAGTGCCATGGGAATACCACGACCCCAACCCCTAACAGGAGTCTC
GGTAATGTCTTTTCTCAAATCCACTGCCGCCAGATTCTGCTAAAGGTGTTATCGCAATTAGCAAAAGCA
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GATTGACGTCGGTACCTACAAGGTCTATAACATTCCACTAGAAAACCTATGCCTCTGGGAGCGATCACTTA
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ATCTGGTCAGCCCCAGAGCCTACAGAGGATACCCACCCATGGAACAGATGTTCTCCTTTTCCAGCCATC
TGTAATGAGGATGCCATGGTGAATGCTCAGTTCGCCAGCCAGGGGCCAGGGCAGGCTTCTAAGGAGG
GCTGACTCCCTGGCCAGCTCCACCGAGATGGCCATGTTCAGAAGGGTCACTGAGCCCCACAGCTGCCCC
CTGGTGACAGGTATGGCCGAGCAACCTATAGGGGTGGGCTGGAAGGCCAGAGCAGCATTTCAATGACTGA
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GCGGGAAGTTTCTGCTAAAAACCTTACCCAGAGGAGGCGCTGTCTGCCAGGAGCTACAGCACAGAGA
GTTATGGGGCCTCCCAACCAGGCCAGTTTCAGCTAGGCCTACCATGGCAGCCCTCTGGAAAAATACC
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CCTGTGAAGGGAGAGGAGAGCTGTGGCAAAATGCCGGCAGACTGGAGACAGCAGCTGCTTAGACATATAG
AAGCTAGAAGGTTAGACAGGACCCCGTCCAGCAAGCAACATTTAGACAATGGACAAGAAGATGTCTC
TCCTAGTGGCCATGGAATCCTTACCCACTTGGGAGGCGGGATGTACCTCCGGACACCATTACTAAAAAG
GCAGGCAGCCACATTAGACCCCTGATGGGTCACAGAGCCTTCAAGCCGAGCCGGGAGCAGCAGCCAT
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ACAGGCTACCCGGGGACCTCAGCCTGGACGGTGCTTAATTCAAACGAAAGGGCAGAGGAGTATGGACGGT
TATCCCGAGCAGTTCTGTGTGAGGATAGAAAAGAATCCTGGGCTTGGATTAGTATCAGCGGTGGAATTA
GTGGGCAAGGAAATCCTTTCAAACCTTCTGACAAGGGTATCTTTGTTACTAGGGTTCAGCCTGATGGACC
AGCATCCAACCTACTACAGCCCGGGGATAAAATCCTTCAGGCAAAATGGACACAGTTTTGTGCATATGGAA
CATGAAAAGGCTGTTTTACTACTGAAGAGCTTCCAGAACACAGTAGACCTAGTTATTCAACGTGAGCTCA
CTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001291452
Insert Size: 4488 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001291452.1, NP_001278381.1</u>
RefSeq Size:	7321 bp
RefSeq ORF:	4488 bp
Locus ID:	242274
UniProt ID:	<u>Q80TE7</u>
Cytogenetics:	3 H4
Gene Summary:	Required for normal synaptic spine architecture and function. Necessary for DISC1 and GRM5 localization to postsynaptic density complexes and for both N-methyl D-aspartate receptor-dependent and metabotropic glutamate receptor-dependent long term depression. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1.