

Product datasheet for **MC229575**

Lrrc7 (NM_001291453) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc7 (NM_001291453) 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:	>MC229575 representing NM_001291453 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCACTGCTTGGAGATGACCAACCGAAGCTCATTGGCCGCTGGTGCCATGCCGCTGCTCCGTG
GAGAGGAAGAGATCATCTCAGTGTGGATTACTCCCACTGCAGCCTGCAACAGGTGCCAAGGAGTCTT
CAACTTGAACGCACACTAGAAGAGCTCTATCTGGATGCCAATCAGATTGAGGAGCTACCTAAGCAATTG
TTCAACTGTCAAGCTCTACGGAACTAAGCATTCTGATAATGACCTCTCAAGTCTGCCAACCTCCATTG
CTAGCCTAGTTAACCTGAAAGAACTCGACATCAGTAAAAACGGTGTACAAGAATTTCCAGAAAACATAAA
GTGCTGTAAGTGTAAACCATAATTGAAGCCAGTGTCAATCCCATTTCTAAACTACCCGATGGCTTCACG
CAGCTTCTTAACCTGACCCAGCTCTACCTGAATGACGCATTCTCGAATTTCTTCAGCTAATTTTGGA
GACTTGTCAAATTCGCAATACTGGAGTTAAGAGAAAATCACTTGAAGAACTCTACCAAGTCAATGCACAA
GTTAGCCAGCTGGAAAGACTTGACCTAGGCAATAATGAATTCAGCGAGCTGCCTGAAGTTCTGGATCAA
ATACAGAATTTGAGGGAGCTGTGGATGGATAACAATGCATTGCAAGTGTGCCTGGGTCTATAGGGAAGT
TAAAGATGTTGGTATACCTGGATATGTCAAAAAACAGGATAGAAACGGTTGATATGGATATTTCTGGATG
TGAAGCCCTCGAGGACCTCTTACTATCATCCAATATGTTGCAACAGCTGCCTGACTCAATAGGATTGCTG
AAAAAGTTAACTCTAAAAGTAGATGACAATCACTTACAATGCTACCAACACAATTGGAACCTTAT
CTTTATTAGAAGAATTTGACTGCAGCTGCAACGAGCTGGAGTCCCTCCCTCCCACTTGGTTACCTGCA
CAGCCTTCGAACATTAGCGGTTGACGAGAATTTCTCCAGAGTTGCCAAGAGAAATTGGAAGCTGTAAG
AATGTCACCGTTATGTCTCTACGCTCCAATAAGCTAGAATTTCTTCTGAAGAAATTGGGCAGATGCAGA
GACTGCGTGTCTTAAATCTAAGTGATAATAGGTTGAAGAATTTGCCATTCTTTTACCAAACTCAAAGA
GCTTGCAGCATTGTGGCTTTCTGACAATCAGTCCAAGGCCCTTATCCCTCTGCAAACAGAAGCCACCCA
GAAACCAAGCAAAGGTTACTAACCACTACATGTTTCCCAGCAGCCCGTGGTGACGAAGATTTCCAGT
CAGACAGCGACAGCTTCAACCCACCCTGTGGGAGGAGCAGAGACAACAGCGCATGACTGTTGCCTTTGA
ATTTGAGGATAAAAAAGAAGATGACGAAAGTGCTGGGAAAGTTAAGGCTCTCTCCTGCCAAGCCCTCG



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GACAGGGGCCAGCGTGGGATTACTCTCCAACCTGCCAGGCTGTCTGGCGATTGCTGCACACCATGGGCCA
GGTGTGATCAGCAGATCCAAGATATGCCCGTCCCCAGAGTGACCCCGAGCTGGCATGGGGTTGTATAAG
TGGCCTCCAGCAGGAGAGGAGCATGTGTCTCCATTGCCAGTGGCAGCACAGTCCACCACTCTTCCCTCT
CTAAGTGGCAGACAGGTTGAAATAAACCTAAACGATATCCAACCTCTTACCCGGAGGATTTAAAGAATA
TGGTAAATCTGTTCAAAATCTGGTGGGTAAGCCAAGCCATGGAGTGGTGTGAGAACTCAAATCCAAC
AGCTAACACGGAGCAAACCTGTGAAAGAAAAGTTGAACACAAGTGGCCGGTGGCCCCAAAGGAGATTACA
GTGGAGGATTCTTTTGTTCATCCAGCTAATGAAATGAGGATTGGGGAACCTCACCTTCATTAGCTGAGA
CCCTCTGTACCCACCCAACTTGTCTGCTAGGGAAGGACAAAAAGAATCAACTGATGAGTCTGAAGT
TGACAAAACCTCACTGTCTGAATAACAGTGTCTCCTCAGGCACCTACTCAGACTACTCGCCCTCCCAAGCT
TCCTCGGCATCTCTAACACCCGGATGAAAGTGGGGTCTTGCAGGCAACAGCTAAAGATGCCGTCCATA
ACTCTTTGTGGGTAACAGGATTGCACCACCTTTCCACAGCCTCTAGATGCAAAGCCATTACTCAGCCA
ACGGGAGGCTGTCCCTCCAGGGAACATCCCCAGCGTCTGATAGGCTGCCAATGAGTGATGCTTCCCT
GACAACTGGACTGATGGCTCCATTACGACAACACTGGTTTTGTCTCGAGGAAGCCGAGGCGAAAATG
CCAACAATAACCCCTCTCTTAAGTTCCAAGGCTAGAAGCGTACCTGCTCATGGGCGCAGGCCCTTAATTAG
GCAAGAAAGGATTGTGCGGTGTTCCCTGGAACCTGGAGCAGTCCACACACAGACACACACCAGAAACAGAA
GTGCCTCCTTCCAATCCCTGGCAGAAATGGACCAGAACTCCAGTCCATTGAAGATAGGACTGCTTTTC
CTTCAAATTAGAAACAACCCCTACTACAGTCCCTTGCCTGAAAGAAAAGACCACATGAAGGAGCCTAC
AGAGACACCAGGTCCCTTTTCTCCGGGAGTGCCATGGGAATACCACGACCCCAACCCCTAACAGGAGTCTC
GGTAATGTCTTTTCTCAAATCCACTGCCGCCAGATTCTGCTAAAGGTGTTATCGCAATTAGCAAAGCA
CAGAGAGGCTTTCCCGCTCATGAAAGATATAAAGTCCAACAAGTTCAAAAAGTCCCAGAGTATTGATGA
GATTGACGTCGGTACCTACAAGGTCTATAACATTCCACTAGAAAATATGCCTCTGGGAGCGATCACTTA
GGAAGCCATGAGCGGCCAGACAAGTCTTGGGACCAGAGCATGGCATGTCCAGTATGTCCAGGAGCCAGT
CAGTACCATGTTGGATGACGAGATGCTCATGTATGGAAGTATGAAAGGCCACCCCAACAAAAGCGTC
TATGACTAAGAAGGTCTATCAGTTTGACCAAAGCTTCAACCCACAAGGAGCGGTGGAAGTAAAAGCCGAG
AAGAGGATTCCACCCCTTTTGCACACAATTCTGAGTATGTACAGCAGCCAGTAAAAACATCGCCAAGG
ATCTGGTCAGCCCCAGAGCCTACAGAGGATACCCACCCATGGAACAGATGTTCTCCTTTTCCAGCCATC
TGTAATGAGGATGCCATGGTGAATGCTCAGTTCGCCAGCCAGGGGCCAGGGCAGGCTTCTAAGGAGG
GCTGACTCCCTGGCCAGCTCCACCGAGATGGCCATGTTGAGAAGGGTCACTGAGCCCCACGAGTGGCCC
CTGGTGACAGGTATGGCCGAGCAACCTATAGGGGTGGGCTGGAAGGCCAGAGCAGCATTTCAATGACTGA
TCCCCAATTCTCAAGAGGAATGGCAGGTACGAAGATGAGCACCTTCATATCAAGAAGTAAAGCGCAG
GCGGGAAGTTTCTGCTAAAAACCTTACCCAGAGGAGGCGCTGTCTGCCAGGAGCTACAGCACAGAGA
GTTATGGGGCCTCCCAACCAGGCCAGTTTCAGCTAGGCCTACCATGGCAGCCCTCTGGAATAAATACC
ATCTGACTATAACTTGGGTAACATGGTGACAAGACATCAGATAACAGTATATAAAGACAAAGGCCACC
CCTGTGAAGGGAGAGGAGAGCTGTGGCAAAATGCCGGCAGACTGGAGACAGCAGCTGCTTAGACATATAG
AAGCTAGAAGGTTAGACAGGGCAGGCAGCCACATTAGACCCCTGATGGGGTACAGAGCCTTCAGACCCG
CAGCCGGGAGCAGCAGCCATATGAAGGGAACATCAACAAAGTGACCATTCAGCAGTTCCAATCGCCATTG
CCCATCCAGATCCCTCATCACAGGCTACCCGGGGACCTCAGCCTGGACGGTGTAAATTCAAACGAAAG
GGCAGAGGAGTATGGACGGTTATCCCGAGCAGTTCTGTGTGAGGATAGAAAAGAATCCTGGGCTTGGATT
TAGTATCAGCGGTGGAATTAGTGGGCAAGGAAATCCTTCAAACCTTCTGACAAGGGTTCAGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001291453

Insert Size:

4197 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_001291453.1</u> , <u>NP_001278382.1</u>
RefSeq Size:	7184 bp
RefSeq ORF:	4197 bp
Locus ID:	242274
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 (3) lacks two alternate in-frame exons and uses an alternative splice site in the 3' coding region compared to variant 1. The resulting protein (isoform 3) is shorter and has a distinct C-terminus compared to isoform 1.