

Product datasheet for **MG222781**

Lrrc7 (NM_001081358) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc7 (NM_001081358) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lrrc7
Synonyms:	AK122498; densin; mKIAA1365
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222781 representing NM_001081358 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCACTGCTTGGAGATGACCAACGAAGCTCATTGGCCGCTGGTGCCATGCCGCTGCTCCGTG
GAGAGGAAGAGATCATCTCAGTGTGGATTACTCCCACTGCAGCCTGCAACAGGTGCCAAGGAGTCTT
CAACTTGAACGCACACTAGAAGAGCTCTATCTGGATGCCAATCAGATTGAGGAGCTACCTAAGCAATTG
TTCAACTGTCAAGCTCTACGAACTAAGCATTCTGATAATGACCTCTCAAGTCTGCCAACCTCCATTG
CTAGCCTAGTTAACTGAAAGAACTCGACATCAGTAAAAACGGTGTACAAGAATTTCCAGAAAACATAAA
GTGCTGTAAGTGTAAACCATAATTGAAGCCAGTGTCAATCCCATTTCTAACTACCCGATGGCTTCACG
CAGCTTCTTAACCTGACCCAGCTCTACCTGAATGACGCATTCTCGAATTTCTTCCAGCTAATTTTGAA
GACTTGTCAAATTCGAATACTGGAGTTAAGAGAAAATCACTTGAAGAACTCTACCAAGTCAATGCACAA
GTTAGCCAGCTGGAAAGACTTGACCTAGGCAATAATGAATTCAGCGAGCTGCCTGAAGTTCTGGATCAA
ATACAGAATTTGAGGGAGCTGTGGATGGATAACAATGCATTGCAAGTGTGCCTGGGTCTATAGGGAAGT
TAAAGATGTTGGTATACCTGGATATGTCAAAAAACAGGATAGAACGGTTGATATGGATATTTCTGGATG
TGAAGCCCTCGAGGACCTCTTACTATCATCCAATATGTTGCAACAGCTGCCTGACTCAATAGGATTGCTG
AAAAAGTTAACTCTAAAAGTAGATGACAATCACTTACAATGCTACCAACACAATTGGAACTTAT
CTTTATTAGAAGAATTTGACTGCAGCTGCAACGAGCTGGAGTCCCTCCCTCCACCATTTGGTTACCTGCA
CAGCCTTCGAACATTAGCGGTTGACGAGAATTTCTCCAGAGTTGCCAAGAGAAATTGGAAGCTGTAAG
AATGTCACCGTTATGTCTCTACGCTCCAATAAGCTAGAATTTCTTCTGAAGAAATTGGGCAGATGCAGA
GACTGCGTGTCTTAAATCTAAGTGATAATAGGTTGAAGAATTTGCCATTCTTTTACCAAACTCAAAGA
GCTTGCAGCATTGTGGCTTTCTGACAATCAGTCCAAGGCCCTTATCCCTCTGCAACAGAAGCCACCCA
GAAACCAAGCAAGGGTACTAACCACTACATGTTTCCCAGCAGCCCGTGGTGACGAAGATTTCCAGT
CAGACAGCGACAGCTTCAACCCACCCTGTGGGAGGAGCAGAGACAACAGCGCATGACTGTTGCCTTTGA
ATTTGAGGATAAAAAAGAAGATGACGAAAGTGCTGGGAAAGTTAAGGCTCTCTCCTGCCAAGCCCTCG



[View online »](#)

GACAGGGGCCAGCGTGGGATTACTCTCCAACTGCCAGGCTGTCTGGCGATTGCTGCACACCATGGGCCA
 GGTGTGATCAGCAGATCCAAGATATGCCCGTCCCCAGAGTGACCCCACTGGCATGGGGTTGTATAAG
 TGGCCTCCAGCAGGAGAGGAGCATGTGTCTCCATTGCCAGTGGCAGCACAGTCCACCACTCTTCCCTCT
 CTAAGTGGCAGACAGGTTGAAATAAACCTAAACGATATCCAACCTCTTACCCGGAGGATTTAAAGAATA
 TGGTAAATCTGTTCAAAATCTGGTGGGTAAAGCAAGCCATGGAGTGCCTGTTGAGAACTCAAATCCAAC
 AGCTAACACGGAGCAAACTGTGAAAGAAAAGTTGAACACAAGTGGCCGGTGGCCCCAAAGGAGATTACA
 GTGGAGGATTCTTTTGTTCATCCAGCTAATGAAATGAGGATTGGGGAACCTCACCTTCATTAGCTGAGA
 CCCCTCTGTACCCACCCAACTTGTCTGCTAGGGAAGGACAAAAAGAATCAACTGATGAGTCTGAAGT
 TGACAAAACCTCACTGTCTGAATAACAGTGTCTCCTCAGGCACCTACTCAGACTACTCGCCCTCCCAAGCT
 TCCTCGGCATCCTCTAACACCCGGATGAAAGTGGGGTCTTGCAGGCAACAGCTAAAGATGCCGTCCATA
 ACTCTTTGTGGGTAAACAGGATTGCACCACCTTTCCACAGCCTCTAGATGCAAAGCCATTACTCAGCCA
 ACGGGAGGCTGTCCCTCCAGGGAACATCCCCAGCGTCTGATAGGCTGCCAATGAGTGATGCTTCCCT
 GACAACTGGACTGATGGCTCCATTACGACAACACTGGTTTTGTCTCGAGGAAGCCGAGGCGAAAATG
 CCAACAATAACCCCTCTCTTAAGTTCCAAGGCTAGAAGCGTACCTGCTCATGGGCGCAGGCCTTTAATTAG
 GCAAGAAAGGATTGTGCGGTGTTCCCTGGAAGTGGAGCAGTCCACACACAGACACACACCAGAAACAGAA
 GTGCCTCCTTCCAATCCCTGGCAGAAATTGGACCAGAACTCCAGTCCATTGAAGATAGGACTGCTTTTC
 CTTCAAATTAGAAACAACCCCTACTACAGTCCCTTGCTGAAAGAAAAGACCACATGAAGGAGCCTAC
 AGAGACACCAGGTCCCTTTTCTCCGGGAGTGCCATGGGAATACCACGACCCCAACCCCTAACAGGAGTCTC
 GGTAAATGTCTTTTCTCAAATCCACTGCCGCCAGATTCTGCTAAAGGTGTTATCGCAATTAGCAAAAGCA
 CAGAGAGGCTTTCCCGCTCATGAAAGATATAAAGTCCAACAAGTTCAAAAAGTCCCAGAGTATTGATGA
 GATTGACGTCGGTACCTACAAGGTCTATAACATTCCACTAGAAAATATGCCTCTGGGAGCGATCACTTA
 GGAAGCCATGAGCGGCCAGACAAGTCTTGGGACCAGAGCATGGCATGTCCAGTATGTCCAGGAGCCAGT
 CAGTACCCATGTTGGATGACGAGATGCTCATGTATGGAAGTAGTAAAGGCCCAACCAAAAAAGCGTC
 TATGACTAAGAAGGTCTATCAGTTTGACCAAAGCTTCAACCCACAAGGAGCGGTGGAAGTAAAGCCGAG
 AAGAGGATTCCACCCCTTTTGCACACAATTCTGAGTATGTACAGCAGCCAGTAAAAACATCGCCAAGG
 ATCTGGTCAGCCCGAGAGCTACAGAGGATACCCACCCATGGAACAGATGTTCTCCTTTTCCAGCCATC
 TGTAAATGAGGATGCCATGGTGAATGCTCAGTTCGCCAGCCAGGGGCCAGGGCAGGCTTCTAAGGAGG
 GCTGACTCCCTGGCCAGCTCCACCGAGATGGCCATGTTCAGAAGGGTCACTGAGCCCCACAGCTGCCCC
 CTGGTGACAGGTATGGCCGAGCAACCTATAGGGGTGGGCTGGAAGGCCAGAGCAGCATTTCAATGACTGA
 TCCCCAATTCTCAAGAGGAATGGCAGGTACGAAGATGAGCACCTTCATATCAAGAAGTAAAAGCGCAG
 GCGGGAAGTTTCTGCTAAAAACCTTACCCAGAGGAGGCGCTGTCTGCCAGGAGCTACAGCACAGAGA
 GTTATGGGGCCTCCCAACCAGGCCAGTTTCAGCTAGGCCATACATGGCAGCCCTCTGGAAAAATACC
 ATCTGACTATAACTTGGGTAACATATGGTGACAAGACATCAGATAACAGTGATATAAAGACAAGGCCACC
 CCTGTGAAGGGAGAGGAGAGCTGTGGCAAAATGCCGGCAGACTGGAGACAGCAGCTGCTTAGACATATAG
 AAGCTAGAAGGTTAGACAGGAATGCTGCTTACAAACACAACACAGTTAACCTTGGCATGCTGCCCTATGG
 AGGTATTTAGCAATGCATGCAGGCAGAAAGCATGACTTTAACTTGACAGCTAAGTCTAAATTTGACCTT
 CAAGACCTACCTCTTCAGAAAACCCCGTCCCAGCAAAGCAACATTTTAGACAATGGACAAGAAGATGTCT
 CTCCTAGTGGCCAATGGAATCCTTACCCACTTGGGAGGCGGATGTACCTCCGGACACCATTAATAAAAA
 GGCAGGCAGCCACATTCAGACCTGATGGGGTCACAGAGCCTTCAGCACCGCAGCCGGGAGCAGCAGCCA
 TATGAAGGGAACATCAACAAAGTGACCATTAGCAGTTCCAATCGCCATTGCCCATCCAGATCCCTCAT
 CACAGGCTACCCGGGACCTCAGCCTGGACGGTCTTAATTCAAACGAAAGGGCAGAGGAGTATGGACGG
 TTATCCCGAGCAGTTCTGTGTGAGGATAGAAAAGAATCCTGGGCTTGGATTTAGTATCAGCGGTGGAATT
 AGTGGGCAAGGAAATCCTTTCAAACCTTCTGACAAGGGTATCTTTGTACTAGGGTTACAGCTGATGGAC
 CAGCATCAACCTACTACAGCCCGGGGATAAAATCCTTCAGGCAAATGGACACAGTTTTGTGCATATGGA
 ACATGAAAAGGCTGTTTTACTACTGAAGAGCTCCAGAACACAGTAGACCTAGTTATTCAACGTGAGCTC
 ACTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

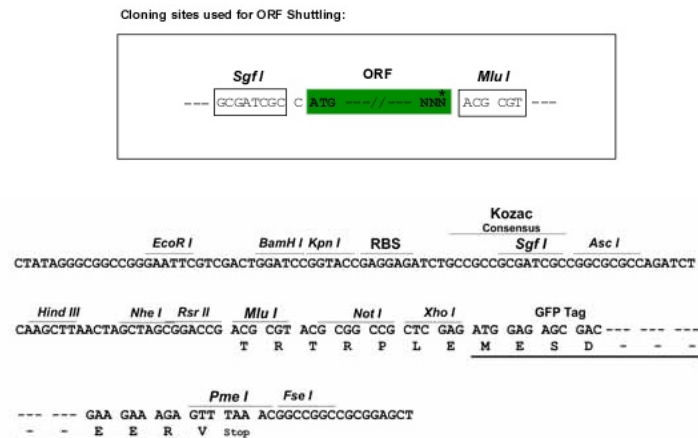
Protein Sequence: >MG222781 representing NM_001081358
Red=Cloning site Green=Tags(s)

MQCLEMTTKRKLIGRLVPCRCFRGEEEEISVLDSYHCSLQQVPKEVFNFERTLEELYLDANQIEELPKQL
FNCQALRKLSIPDNDLSSLPTSIALSVNLKELDISKNGVQEPENIKCKCLTIEASVNPISKLPDGF
QLNLTLQYLNDALFLPANFGRLVKLRILELRENHLKTLPKSMHKLALQLERLDLGNNEFSELPEVLDQ
IQNLRELWMDNNALQVLPGSIGLKLMLVYLDMSKNRIETVMDISGCEALDLLLLSSNMLQQLPDSIGLL
KKLTTTLKVDDNQLTMLPNTIGNLSLLEEFDCSCNELESPPITIGYLHSLRTLAVDENFLPELPREIGSCK
NVTVMSLRSNKLEFLPEEIGQMQRRLVNLSDNRLKNLPFSFTKLKELAAALWLDNQSKALIPLQTEAHP
ETKQVRVLTNYMFPQQPRGDEDFQSDSDSFNPTLWEEQRQQRMTVAFEFEDKKEDDESAGVKALSCQAPW
DRGQRGITLQPARLSDGCCTPWARCDQIQDMPVPQSDPQLAWGCISGLQQERSMCAPLPVAAQSTTLPS
LSGRQVEINLKRYPTYPEDLKNMVKSVQNLVGKPSHGVRVENSNTANTEQTVKEKFEHKWPVAPKEIT
VEDSFVHPANEMRIGELHPSLAETPLYPKLVLLGDKKESTDESEVDKTHCLNNSVSSGTYSYDPSQA
SSASSNTRMKVGSQATAKDAVHNSLWGNRIAPPFPQLDAKPLLSQREAVPPGNIPQRPDRLPMSDAFP
DNWTDGSHYDNTGFVSEEAAGENANNPLLSKARSVPAHGRRPLIRQERIVGVPLELEQSTHRHTPETE
VPPSNPWQNWTRTPSPFEDRTAFPSKLETTPTTSPPLPERKDHMKETETPGFPSPGVPWEYHDPNRS
GNVFSQIHCPRDSSKGVIAISKSTERLSPLMKDIKSNFKKSQSIDEIDVGTYKVYNIPLINYASGSDHL
GSHERPDKFLGPEHGMSSMSRSQSVPMDDMLMYGSSKGPQQKASMTKKVYQFDQSFNPQGAVEVKA
KRIPPPFAHNSYVQQPSKNIAKDLVSPRAYRGYPPEMFSSQSPVNEDAMVNAQFASQGPRAFLRR
ADSLASSTEMAMFRRVSEPHLPPGDRYGRATYRGLEGQSSISMTDPQFLKRNGRYEDEHPSYQEVKAQ
AGSFPAKNLTQRRPLSARSYSTESYGASQTRPVARSPTMAALLEKIPSDYNLGNYGDKTSDNSDIKTRPT
PVKGEESCGKMPADWRQQLRHIEARRLDNRNAYKHNTVNLGMLPYGGISAMHAGRSMTLNLQTKSKFDL
QDLPLQKTPSQSNILDNQGEDVSPSGQWNPYPLGRRDVPPDTITKKAGSHIQTLMSQSLQHRREQQP
YEGNINKVTIQFQSPPLPIQIPSSQATRGPPGRCLIQTKGQSRMDGYPEQFCVRIEKNPGLGFSISGGI
SGQGNPFKPSDKGIFVTRVQPDGPASNLLQPGDKILQANGHSFVHMEHEKAVLLLSKSFQNTVDLVIQREL
TV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

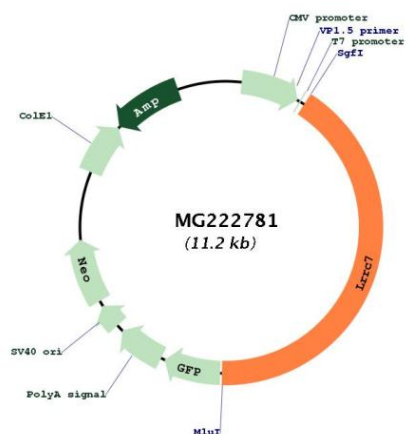


ACCN: NM_001081358

ORF Size: 4626 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001081358.3
RefSeq Size:	5918 bp
RefSeq ORF:	4629 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]

Product images:



Circular map for MG222781