

Product datasheet for **RC208632**

LRRC8A (NM_019594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC8A (NM_019594) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRRC8A
Synonyms:	AGM5; HsLRRC8A; LRRC8; SWELL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC208632 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTCCGGTGACAGAGCTCCGCTACTTTGCGGACACGCAGCCAGCATACCGGATCCTGAAGCCGTGGT
 GGGATGTGTTACAGACTACATCTCTATCGTCATGCTGATGATTGCCGTCTTCGGGGGACGCTGCAGGT
 CACCCAAGACAAGATGATCTGCCTGCCTTGTAAAGTGGGTACCAAGGACTCCTGCAATGATTCTGTTCCGG
 GGCTGGGACGCCCTGGCCCGGAGCCACCTACCCAACTCCACCATTCTGCCGACCCCTGACACGGGCC
 CCACAGGCATCAAGTATGACCTGGACCGGACAGTACAACACTACGTGGACGCTGTGTGCTATGAGAACCG
 ACTGCACTGGTTTCCAAGTACTTCCCCTACCTGGTGCTTCTGCACACGCTCATCTTCTGGCCTGCAGC
 AACTTCTGGTTCAAATTCGCGCACAGCTCGAAGCTGGAGCACTTTGTGTCTATCCTGCTGAAGTGCT
 TCGACTCGCCCTGGACCACGAGGGCCCTGTCGGAGACAGTGGTGGAGGAGAGCGACCCCAAGCCGGCCTT
 CAGCAAGATGAATGGGTCCATGGACAAAAGTCAATCGACCGTCAGTGAGGACGTGGAGGCCACCGTGCC
 ATGCTGCAGCGGACCAAGTACCGGATCGAGCAGGGTATCGTGGACCGCTCAGAGACGGGCGTGTGGACA
 AGAAGGAGGGGGAGCAAGCCAAGGCGCTGTTTGAAGGTTGAAGAAGTCCGGACCCATGTGGAGGAGGG
 GGACATTTGTACCGCCTCTACATGCGGCAGACCATCATCAAGGTGATCAAGTTCATCCTCATCATCTGC
 TACACCGTCTACTACGTGCACAACATCAAGTTCGACGTGGACTGCACCGTGGACATTGAGAGCCTGACGG
 GCTACCGCACCTACCGCTGTGCCACCCCTGGCCACACTCTTCAAGATCCTGGCGTCTTCTACATCAG
 CCTAGTCATCTTCTACGGCCTCATCTGCATGTATACACTGTGGTGGATGCTACGGCGCTCCCTCAAGAAG
 TACTCGTTTGAGTCGATCCGTGAGGAGAGCAGCTACAGCGACATCCCGACGTCAAGAACGACTTCGCT
 TCATGCTGCACCTCATTGACCAATACGACCCGCTCTACTCCAAGCGCTTCGCCGTCTTCTGTCCGAGGT
 GAGTGAGAACAAGCTGCGGCAGCTGAACCTCAACAACGAGTGGACGCTGGACAAGCTCCGGCAGCGGCTC
 ACCAAGAACGCGCAGGACAAGCTGGAGCTGCACCTGTTTATGCTCAGTGGCATCCCTGACACTGTGTTTG
 ACCTGGTGGAGCTGGAGGCTCCTCAAGCTGGAGCTGATCCCGACGTGACCATCCCGCCAGCATTGCCCA
 GCTCACGGGCTCAAGGAGCTGTGGCTCTACCACACAGCGCCAAAGATTGAAGCGCCCGCTGGCCTTC
 CTGCGGAGAACCTGCGGGCGTGCACATCAAGTTCACCGACATCAAGGAGATCCCGCTGTGGATCTATA
 GCCTGAAGACTGGAGGAGCTGCACCTGACGGGCAACCTGAGCGCGGAGAACACCGCTACATCGTCAT
 CGACGGGCTGCGGAGCTCAAACGCCTCAAGGTGCTGCGGCTCAAGAGCAACCTAAGCAAGCTGCCACAG
 GTGGTACAGATGTGGGCTGCACCTGCAGAAGCTGTCCATCAACAATGAGGGCACCAAGCTCATCGTCC
 TCAACAGCCTCAAGAAGATGGCGAACCTGACTGAGCTGGAGCTGATCCGCTGTGACTGGAGCGCATCCC
 CCACTCCATCTTCAAGCTCCACAACCTGCAGGAGATTGACCTCAAGGACAACAACCTCAAGACCATCGAG
 GAGATCATCAGCTTCCAGCACCTGCACCGCCTCACCTGCCTTAAGCTGTGGTACAACCACATCGCCTACA
 TCCCCATCCAGATCGGCAACCTCAACAACCTGGAGCGCCTCTACCTGAACCGCAACAAGATCGAGAAGAT
 CCCCACCCAGCTCTTCTACTGCCGAAGCTGCGCTACCTGGACCTCAGCCACAACAACCTGACCTTCCTC
 CCTGCCGACATCGGCCTCCTGCAGAACCTCCAGAACCTAGCCATCACGGCAACCGGATCGAGACGCTCC
 CTCCGGAGCTCTTCCAGTGCCGGAAGCTGCGGGCCCTGCACCTGGGCAACAACGTGCTGCAGTCACTGCC
 CTCCAGGGTGGGCGAGCTGACCAACCTGACGCAGATCGAGCTGCGGGGCAACCGGCTGGAGTGCCTGCCT
 GTGGAGCTGGGCGAGTGCCCACTGCTCAAGCGCAGCGGCTTGGTGGTGGAGGAGGACCTGTTCAACACAC
 TGCCACCCGAGGTGAAGGAGCGGCTGTGGAGGGCTGACAAGGAGCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208632 protein sequence
Red=Cloning site Green=Tags(s)

MIPVTELRYFADTQPAYRILKPWWVFTDYISIVMLMIAVFGGTLQVTQDKMICLPCKWVTKDCNSDFR
GWAAPGPEPTYPNSTILPTDGTGPTGIKYDLDRHQYNYVDAVCYENRLHWFACYFPYLVLHLLIFLACS
NFWFKFPRTSSKLEHFVSILLKCFDSPWTRALSETVVEESDPKPAFSKMNGSMDKKSSTVSEDVEATVP
MLQRTKSRIEQIVDRSETGVLDKKEGEQAKALFEKVKKFRTHVEEGDIVYRLYMRQTIKVIKIFILIIIC
YTVYYVHNIKFDVDCTVDIESLTGYRTRYCAHPLATLFKILASFYISLVIFYGLICMYTLWMLRRSLKK
YSFESIREESSYSDIPDVKNDFAFMLHLIDQYDPLYSKRFAVFLSEVSENKLRQLNLNNEWTLDKLRQRL
TKNAQDKLELHFLMMSGIPDVFDFLVELEVLELIPDVTIPPSIAQLTGLKELWLYHTAAKIEAPALAF
LRENLRALHIKFTDIKEIPLWIYSLKTLLELHLTGNSAENNRIVIDGLRELKRLKVLRLKSNLSKLPQ
VVDVGVHLQKLSINNEGTKLIVLNSLKKMANLTELELRCDLERIPHSIFSLHNLQEIDLKDNNLKTIE
EIIISFQHLHRLTCLKLWYNHAIYIPIQIGNLTNLERLYLNRNKIEKIPTQLFYCRKLRYLDSLHNNLTFL
PADIGLLQNLQNLAITANRIETLPPPELFCRKLRLHLGNNVLQSLPSRVGELTNLTQIELRGNRLECLP
VELGECPLLKRSGLVVEEDLFNTLPPEVKERLWRADKEQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6689_d06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_019594

ORF Size: 2430 bp

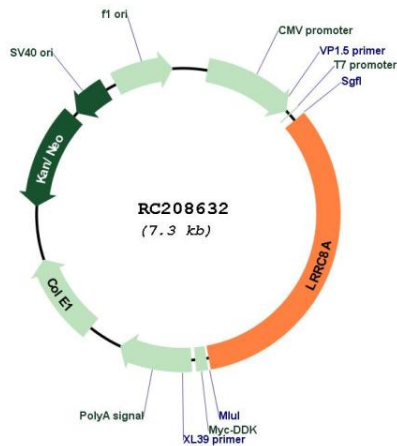
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

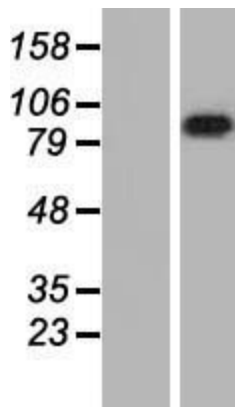
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_019594.3
RefSeq Size:	4368 bp
RefSeq ORF:	2433 bp
Locus ID:	56262
UniProt ID:	Q8IWT6
Cytogenetics:	9q34.11
Protein Families:	Transmembrane
MW:	94.2 kDa
Gene Summary:	This gene encodes a protein belonging to the leucine-rich repeat family of proteins, which are involved in diverse biological processes, including cell adhesion, cellular trafficking, and hormone-receptor interactions. This family member is a putative four-pass transmembrane protein that plays a role in B cell development. Defects in this gene cause autosomal dominant non-Bruton type agammaglobulinemia, an immunodeficiency disease resulting from defects in B cell maturation. Multiple alternatively spliced transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008]

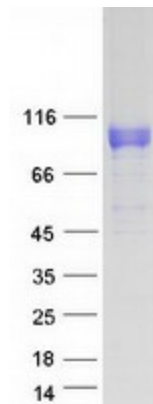
Product images:



Circular map for RC208632



Western blot validation of overexpression lysate (Cat# [LY426738]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226181] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LRRC8A protein (Cat# [TP308632]). The protein was produced from HEK293T cells transfected with LRRC8A cDNA clone (Cat# RC208632) using MegaTran 2.0 (Cat# [TT210002]).