

Product datasheet for **RG226181**

LRRC8A (NM_001127245) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC8A (NM_001127245) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRC8A
Synonyms:	AGM5; HsLRRC8A; LRRC8; SWELL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226181 representing NM_001127245
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTCCGGTGACAGAGCTCCGCTACTTTGCGGACACGCAGCCAGCATACCGGATCCTGAAGCCGTGGT
 GGGATGTGTTACAGACTACATCTCTATCGTCATGCTGATGATTGCCGTCTTCGGGGGACGCTGCAGGT
 CACCCAAGACAAGATGATCTGCCTGCCTTGTAAAGTGGGTACCAAGGACTCCTGCAATGATTCTGTTCCGG
 GGCTGGGACGCCCTGGCCCGAGCCACCTACCCAACTCCACCATTCTGCCGACCCCTGACACGGGCC
 CCACAGGCATCAAGTATGACCTGGACCGGACAGTACAACCTACGTGGACGCTGTGTGCTATGAGAACCG
 ACTGCACTGGTTTCCAAGTACTTCCCCTACCTGGTGCTTCTGCACACGCTCATCTTCTGGCCTGCAGC
 AACTTCTGGTTCAAATTCGCGCACAGCTCGAAGCTGGAGCACTTTGTGTCTATCCTGCTGAAGTGTCT
 TCGACTCGCCCTGGACCACGAGGCCCTGTCGGAGACAGTGGTGGAGGAGAGCGACCCCAAGCCGGCCTT
 CAGCAAGATGAATGGGTCCATGGACAAAAGTCAATCGACCGTCAGTGAGGACGTGGAGGCCACCGTGCC
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 GGACATTTGTACCGCCTCTACATGCGGCAGACCATCATCAAGGTGATCAAGTTCATCCTCATCATCTGC
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 CCTAGTCATCTTACGGCCTCATCTGCATGTATACACTGTGGTGGATGCTACGGCGCTCCCTCAAGAAG
 TACTCGTTTGAGTCGATCCGTGAGGAGAGCAGCTACAGCGACATCCCGACGTCAAGAACGACTTCGCT
 TCATGCTGCACCTCATTGACCAATACGACCCGCTCTACTCCAAGCGCTTCGCCGTCTTCTGTCCGAGGT
 GAGTGAGAACAAGCTGCGGCAGCTGAACCTCAACAACGAGTGGACGCTGGACAAGCTCCGGCAGCGGCTC
 ACCAAGAACGCGCAGGACAAGCTGGAGCTGCACCTGTTTATGCTCAGTGGCATCCCTGACACTGTGTTT
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 GCTCACGGGCTCAAGGAGCTGTGGCTCTACCACACAGCGCCAAAGATTGAAGCGCCCGCTGGCCTTC
 CTGCGGAGAACCTGCGGGCGTGCACATCAAGTTCACCGACATCAAGGAGATCCCGCTGTGGATCTATA
 GCCTGAAGACTGGAGGAGCTGCACCTGACGGGCAACCTGAGCGCGGAGAACACCGCTACATCGTCAT
 CGACGGGCTGCGGAGCTCAAACGCCTCAAGGTGCTGCGGCTCAAGAGCAACCTAAGCAAGCTGCCACAG
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 GAGATCATCAGCTTCCAGCACCTGCACCGCCTCACCTGCCTTAAGCTGTGGTACAACCACATCGCCTACA
 TCCCCATCCAGATCGGCAACCTCAACAACCTGGAGCGCCTCTACCTGAACCGCAACAAGATCGAGAAGAT
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 CTCCGGAGCTCTTCCAGTGCCGGAAGCTGCGGGCCCTGCACCTGGGCAACAACGTGCTGCAGTCACTGCC
 CTCCAGGGTGGGCGAGCTGACCAACCTGACGCAGATCGAGCTGCGGGGCAACCGGCTGGAGTGCCTGCCT
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 TGCCACCCGAGGTGAAGGAGCGGCTGTGGAGGCTGACAAGGAGCAGGCC

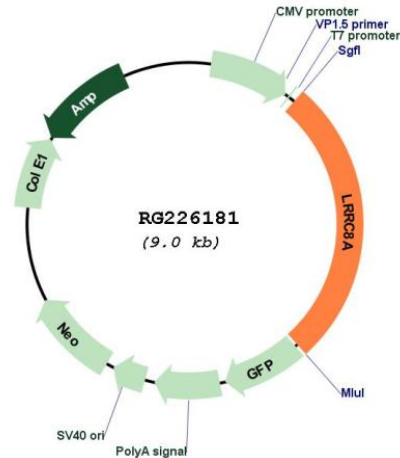
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226181 representing NM_001127245
Red=Cloning site Green=Tags(s)

MIPVTELRYFADTQPAYRILKPWWVFTDYISIVMLMIAVFGGTLQVTQDKMICLPCKWVTKDSCNDSFR
GWAAPGPEPTYPNSTILPTDGTGPTGIKYDLDRHQYNYVDAVCYENRLHWFACYFPYLVLHLLHTLIFLACS
NFWFKFPRTSSKLEHFVSILLKCFDSPWTRALSETVVEESDPKPAF SKMNGSMDKKSSTVSEDVEATVP
MLQRTKSRIEQIVDRSETGVLDKKEGEQAKALFEKVKKFRTHVEEGDIVYRLYMRQTIKVIKIFILIIIC
YTVYYVHNKFDVDCTVDIESLTGYRTRYCAHPLATLFKILASFYISLVIFYGLICMYTLWMLRRSLKK
YSFESIREESSYSDIPDVKNDFAFMLHLIDQYDPLYSKRFAVFLSEVSENKLRQLNLNNEWTLDKLRQRL
TKNAQDKLELHFLM LSGIPDVFDFLVELEVLELIPDVTIPPSIAQLTGLKELWLYHTAAKIEAPALAF
LRENLRALHIKFTDIKEIPLWIYSLKTLLELHLTGNSAENNRIVIDGLRELKRLKVLRLKSNLSKLPQ
VVTDVGVHLQKLSINNEGTKLIVLNSLKKMANL TELELIRCDLERIPHSIFSLHNLQEIDLKDNNLKTIE
EIIISFQHLHRLTCLKLWYNHAIYIPIQIGNLTNLERLYLNRNKIEKIPTQLFYCRKLRYLDSLHNNLTFL
PADIGLLQNLQNLAITANRIETLPPQLFQCRKLRALHLGNNVLQSLPSRVGELTNLTQIELRGNRLECLP
VELGECPLLKRSGLVVEEDLFNTLPPEVKERLWRADKEQA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_001127245

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:

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_001127245.1](#), [NP_001120717.1](#)

RefSeq Size: 4261 bp

RefSeq ORF: 2433 bp

Locus ID: 56262

UniProt ID: [Q8IWT6](#)

Cytogenetics: 9q34.11

Protein Families: Transmembrane

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]