OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC209849

LRRC8E (NM_025061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC8E (NM_025061) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRRC8E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209849 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCCCAGTGGCCGAGTTCAAGCAGTTCACGGAACAGCAGCCTGCGTTCAAGGTGCTCAAACCCTGGT
GGGACGTGCTGGCCGAGTACCTCACCGTGGCCATGCTCATGATTGGGGTCTTTGGCTGCACCCTCCAGGT
GACACAGGACAAGATCATCTGTCTACCCAATCATGAGCTCCAGGAGAACTTATCAGAGGCCCCGTGCCAG
CAATTGCTGCCTCGGGGGATCCCTGAGCAGATTGGGGCCCTGCAGGAGGTTAAAGGCCTTAAGAACAATT
TGGACCTGCAGCAATACAGCTTTATTAACCAGCTGTGTTATGAGACGGCCCTGCACTGGTATACCAAGTA
CTTCCCTTACCTCGTGGTCATTCACACACTCATCTTCATGGTCTGCACCAGTTTCTGGTTCAAGTTCCCT
GGCACCAGCTCCAAGATTGAACACTTCATCTCCATCCTGGGCAAGTGTTTCGACTCTCCATGGACCACCA
GGGCCCTATCCGAGGTCTCCGGGGAGAACCAGAAGGGCCCAGCAGCCACCGAACGGGCTGCGGCCACCAT
AGTGGCCATGGCAGGGACCGGGCCGGGGAAGGCAGGGGAGGGTGAGAAGGAGAAAGTGCTGGCGGAACCG
GAGAAGGTGGTGACCGAGCCTCCAGTTGTCACCCTGTTGGACAAGAAGGAGGGTGAGCAAGCCAAAGCCC
TGTTTGAGAAGGTGAAGAAGTTCCGCATGCACGTGGAAGAGGGCGACATCCTGTACACCATGTACATCCG
ACAGACGGTGCTGAAAGTGTGTAAGTTCCTGGCCATCCTGGTCTACAACCTGGTCTATGTGGAGAAGATC
AGTTTCCTGGTGGCCTGTAGGGTGGAGACGTCAGAGGTCACGGGCTACGCCAGCTTCTGCTGCAACCACA
CCAAGGCCCACCTCTTCTCCAAGCTGGCCTTCTGTTACATCTCCTTTGTGTGCATCTACGGACTTACCTG
CATCTACACGCTCTACTGGCTCTTCCACCGGCCCCTCAAGGAGTACTCCTTCCGTTCCGTGCGGGAGGAG
ACTGGCATGGGGGACATTCCTGACGTCAAGAATGACTTCGCCTTCATGCTGCACCTCATCGATCAGTACG
ACTCCCTCTACTCCAAGCGCTTCGCCGTCTTCCTGTCCGAGGTCAGCGAAAGCCGTCTAAAGCAGCTCAA
TCTCAACCACGAGTGGACCCCCGAGAAGCTTCGACAGAAGCTGCAGCGCAATGCCGCGGGCCGGCTGGAG
CTGGCCCTCTGCATGCTGCCGGGTCTGCCCGACACCGTCTTTGAGCTCAGTGAGGTGGAGTCACTCAGGC
TGGAGGCCATCTGCGATATCACCTTCCCCCCGGGGCTGTCACAGCTGGTGCACTTGCAGGAGCTCAGCTT
GCTCCACTCGCCCGCCAGGCTACCCTTCTCCTTGCAGGTCTTCCTGCGGGACCACCTGAAGGTGATGCGC
GTCAAATGCGAGGAGCTCCGCGAGGTGCCGCTTTGGGTGTTTGGGCTGCGGGGCTTGGAGGAGCTGCACC
TGGAGGGGCTTTTCCCCCAGGAGCTAGCTCGGGCAGCCACCCTGGAGAGCCTCCGGGAGCTGAAGCAGCT
CAAGGTGTTGTCCCTCCGGAGCAACGCCGGGAAGGTGCCAGCCAGTGTGACCGACGTTGCTGGCCACCTG
CAGAGGCTCAGCCTGCACAACGATGGGGCCCGTCTGGTTGCCCTGAACAGCCTCAAGAAGCTGGCGGCAT
TGCGGGAGCTGGAGCTGGTGGCCTGCGGGCTGGAGCGCATCCCCCATGCAGTGTTCAGCCTGGGTGCGCT
GCAGGAACTTGACCTCAAGGACAACCACCTGCGCTCCATCGAGGAAATCCTCAGCTTCCAGCACTGCCGG
AAGCTGGTCACGCTCAGGCTGTGGCACAACCAGATCGCCTACGTCCCTGAGCACGTGCGGAAGCTCAGGA
GCCTGGAGCAGCTCTACCTCAGCTACAACAAGCTGGAGACCCTGCCCTCCCAGCTCGGCCTGTGCTCAGG
CCTCCGTCTGCTGGATGTGTCCCACAATGGGCTACACTCCCTGCCACCCGAGGTGGGCCTCCTGCAGAAC
CTACAGCACCTGGCCCTCTCCTACAATGCCCTGGAGGCCCTGCCCGAAGAGCTCTTCTTCTGCCGCAAGC
TGCGGACGTTGCTTCTGGGCGACAACCAGCTGAGCCAGCTCTCGCCCCACGTGGGTGCCCTCAGAGCCCT
CAGCCGCCTGGAGCTCAAAGGCAACCGCTTAGAGGCGCTGCCAGAAGAACTTGGCAACTGTGGGGGGCTC
AAGAAGGCGGGGCTCCTGGTGGAAGACACGCTTTACCAGGGTCTGCCGGCAGAAGTGCGGGACAAGATGG
AGGAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209849 protein sequence
Red=Cloning site Green=Tags(s)

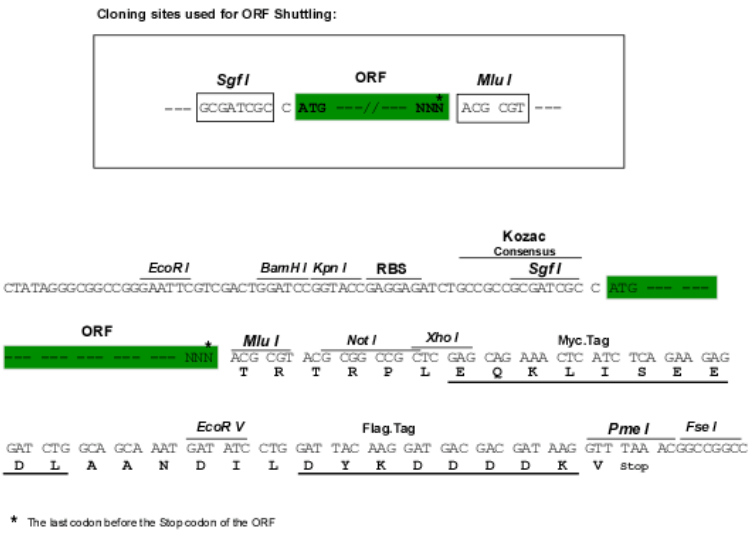
MIPVAEFKQFTEQQPAFKVLKPWWDVLAEYLTVAMLMIGVFGCTLQVTQDKIICLPNHELQENLSEAPCQ
QLLPRGIPEQIGALQEVKGLKNNLDLQQYSFINQLCYETALHWYTKYFPYLVVIHTLIFMVCTSFWFKFP
GTSSKIEHFISILGKCFDSPWTTRALSEVSGENQKGPAATERAAATIVAMAGTGPGKAGEGEKEKVLAEP
EKVVTEPPVVTLLDKKEGEQAKALFEKVKKFRMHVEEGDILYTMYIRQTVLKVCKFLAILVYNLVYVEKI
SFLVACRVETSEVTGYASFCCNHTKAHLFSKLAFCYISFVCIYGLTCIYTLYWLFHRPLKEYSFRSVREE
TGMGDIPDVKNDFAFMLHLIDQYDSLYSKRFAVFLSEVSESRLKQLNLNHEWTPEKLRQKLQRNAAGRLE
LALCMLPGLPDTVFELSEVESLRLEAICDITFPPGLSQLVHLQELSLLHSPARLPFSLQVFLRDHLKVMR
VKCEELREVPLWVFGLRGLEELHLEGLFPQELARAATLESLRELKQLKVLSLRSNAGKVPASVTDVAGHL
QRLSLHNDGARLVALNSLKKLAALRELELVACGLERIPHAVFSLGALQELDLKDNHLRSIEEILSFQHCR
KLVTLRLWHNQIAYVPEHVRKLRSLEQLYLSYNKLETLPSQLGLCSGLRLLDVSHNGLHSLPPEVGLLQN
LQHLALSYNALEALPEELFFCRKLRTLLLGDNQLSQLSPHVGALRALSRLELKGNRLEALPEELGNCGGL
KKAGLLVEDTLYQGLPAEVRDKMEEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6693_e12.zip

Restriction Sites: SgfI-MluI

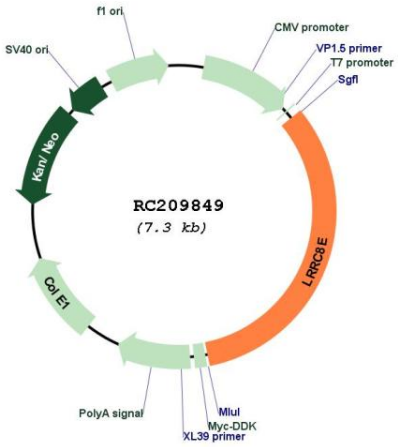
Cloning Scheme:



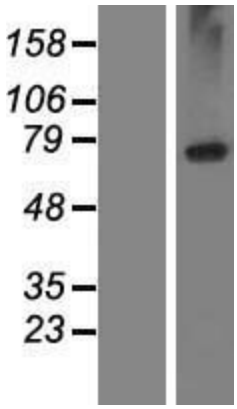
ACCN:	NM_025061
ORF Size:	2388 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_025061.6
RefSeq Size:	3623 bp
RefSeq ORF:	2391 bp
Locus ID:	80131
UniProt ID:	Q6NSJ5
Cytogenetics:	19p13.2
Domains:	LRR
Protein Families:	Transmembrane
MW:	90.3 kDa
Gene Summary:	This gene encodes a member of a small, conserved family of proteins with similar structure, including a string of extracellular leucine-rich repeats. A related protein was shown to be involved in B-cell development. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RC209849



Western blot validation of overexpression lysate (Cat# [LY410934]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209849 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).