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# Product datasheet for RG209849

## LRRC8E (NM_025061) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | LRRC8E (NM_025061) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | LRRC8E |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**ORF Nucleotide Sequence:**

>RG209849 representing NM_025061
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCCCAGTGGCCGAGTTCAAGCAGTTCACGGAACAGCAGCCTGCGTTCAAGGTGCTCAAACCCTGGT
GGGACGTGCTGGCCGAGTACCTCACCGTGGCCATGCTCATGATTGGGGTCTTTGGCTGCACCCTCCAGGT
GACACAGGACAAGATCATCTGTCTACCCAATCATGAGCTCCAGGAGAACTTATCAGAGGCCCCGTGCCAG
CAATTGCTGCCTCGGGGGATCCCTGAGCAGATTGGGGCCCTGCAGGAGGTTAAAGGCCTTAAGAACAATT
TGGACCTGCAGCAATACAGCTTTATTAACCAGCTGTGTTATGAGACGGCCCTGCACTGGTATACCAAGTA
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GAGAAGGTGGTGACCGAGCCTCCAGTTGTCACCCTGTTGGACAAGAAGGAGGGTGAGCAAGCCAAAGCCC
TGTTTGAGAAGGTGAAGAAGTTCCGCATGCACGTGGAAGAGGGCGACATCCTGTACACCATGTACATCCG
ACAGACGGTGCTGAAAGTGTGTAAGTTCCTGGCCATCCTGGTCTACAACCTGGTCTATGTGGAGAAGATC
AGTTTCCTGGTGGCCTGTAGGGTGGAGACGTCAGAGGTCACGGGCTACGCCAGCTTCTGCTGCAACCACA
CCAAGGCCCACCTCTTCTCCAAGCTGGCCTTCTGTTACATCTCCTTTGTGTGCATCTACGGACTTACCTG
CATCTACACGCTCTACTGGCTCTTCCACCGGCCCCTCAAGGAGTACTCCTTCCGTTCCGTGCGGGAGGAG
ACTGGCATGGGGGACATTCCTGACGTCAAGAATGACTTCGCCTTCATGCTGCACCTCATCGATCAGTACG
ACTCCCTCTACTCCAAGCGCTTCGCCGTCTTCCTGTCCGAGGTCAGCGAAAGCCGTCTAAAGCAGCTCAA
TCTCAACCACGAGTGGACCCCCGAGAAGCTTCGACAGAAGCTGCAGCGCAATGCCGCGGGCCGGCTGGAG
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TGGAGGGGCTTTTCCCCCAGGAGCTAGCTCGGGCAGCCACCCTGGAGAGCCTCCGGGAGCTGAAGCAGCT
CAAGGTGTTGTCCCTCCGGAGCAACGCCGGGAAGGTGCCAGCCAGTGTGACCGACGTTGCTGGCCACCTG
CAGAGGCTCAGCCTGCACAACGATGGGGCCCGTCTGGTTGCCCTGAACAGCCTCAAGAAGCTGGCGGCAT
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CAGCCGCCTGGAGCTCAAAGGCAACCGCTTAGAGGCGCTGCCAGAAGAACTTGGCAACTGTGGGGGGCTC
AAGAAGGCGGGGCTCCTGGTGGAAGACACGCTTTACCAGGGTCTGCCGGCAGAAGTGCGGGACAAGATGG
AGGAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

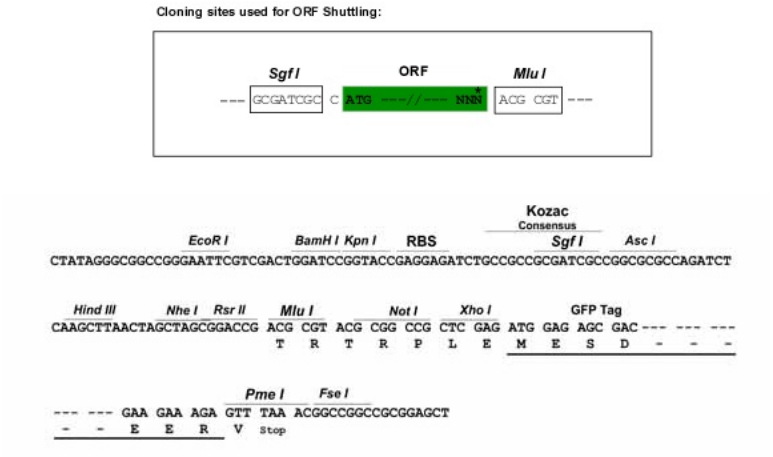
>RG209849 representing NM_025061
Red=Cloning site Green=Tags(s)

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

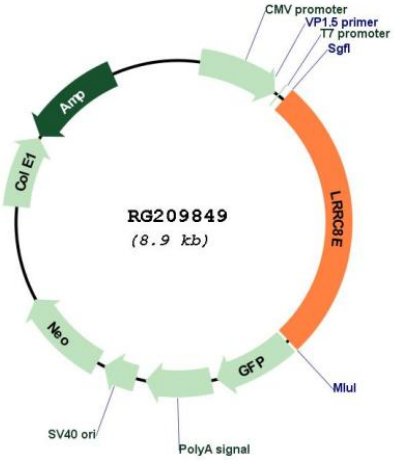
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



Plasmid Map:

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|---|---|
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_025061.3, NP_079337.2 |
| **RefSeq Size:** | 3625 bp |
| **RefSeq ORF:** | 2391 bp |
| **Locus ID:** | 80131 |
| **UniProt ID:** | Q6NSJ5 |

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|---|---|
| **Cytogenetics:** | 19p13.2 |
| **Domains:** | LRR |
| **Protein Families:** | Transmembrane |
| **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] |