

Product datasheet for **RG204359**

LRRC45 (NM_144999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LRRC45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG204359 representing NM_144999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGGAGTTCGGCGCTCCTACAGCCGCTGTGCAGGGAGAGTGGGGCCGAGCCCCAGGAGGCTGTCC
 TGCAGCAGCTGCACCAGCTTCCCAGGGGCCGGCTGGACCTGGCCACGCAAGCCGTGACGGTGAGACCTG
 CAGGGCCCTGGGAAGCTGCTGCCAGGGAGACGCTGTGCACGGAGCTGGTCTCTGAGTGACTGCATGCTC
 AGCGAGGAAGGGGCCACACTGCTGCTCCGAGGCCGTGTGTGCCAACACCGTGTGCGCTTTCTGGACTTAA
 AGGGCAACAACCTTCGGGCTGCAGGGGCCGAGGCTCTGGGAAAACCTCCAACAGAACAAAGTCCATTCA
 GAGCCTCACGCTGGAGTGGAACAGCCTGGGCACGTGGGACGATGCCCTTCCGACCTTCTGCGGGGCCCTG
 GCGGCCAACGGCGCCCTGCAGCGGCTGGACCTCCGCAACAACCAGATCAGTCACAAGGGCGCGGAGGAGC
 TGGCCCTAGCCCTGAAGGGCAACACCACCTCCAGCAGCTGGACCTGCGCTGGAATAACGTTGCGCTCCT
 GGGGGCCGGGCCCTCATGAAGTGTCTCCCAGCAACAGAACCTGTGGAGACTGGACCTGGCTGGGAAC
 AACATCCCTGGAGACGCTCTCAGAGCCGTGGAGCAAGCCATGGGCCACAGCCAGGACCGGCTCACCACCT
 TCCAGGAGAACCAAGCCGCACTCAGCTCCTCAGCAAGGAGGTCCAGCACCTCCGGGAGGAGAAGTCCAA
 GCAGTTCCTCGACTTGATGGAGACTATTGATAAGCAGCGAGAAGAGATGGCCAAGAGCAGCAGGGCGTCG
 GCAGCCCGTGTAGGGCAGCTTCAGGAAGCCCTGAATGAGAGGCACTCCATCATCAACGCTCTCAAGGCCA
 AGCTGCAGATGACAGAGGCCGCCCTGGCTCTGTGCGAGCAGAAGGCCAGGACCTGGGGGAGCTCCTGGC
 CACAGCGGAGCAGGAGCAGCTGAGCCTGTACAGAGGAGGCAAGGAGCTCAAGCTGGAGCAGCAGGAA
 GCTGCAGAGCGGGAGTCTAACTCCTCAGAGACTTGTCTGCTGCCAATGAAAAGAACCTGCTTCTGCAAA
 ACCAGGTAGACGAGTTGGAGCGGAAGTTCAGGTGTGAGCAGGAGCAGCTGTTCCAGACCAGCAGGAGAT
 GACCAGCATGTGAGCTGAGCTGAAGATGCGGGCCATCCAGGCCGAGGAGCGCCTGGACATGGAGAAGAGA
 AGATGCAGACAGAGCCTGGAGGACTCCGAAAGCCTGCGCATCAAGGAGGTGGAGCATATGACCCGTCACC
 TGGAGGAGAGTGAGAAGCCATGCAGGAGCGGGTGCAGAGGCTGGAGGCGGCGCGGCTGTCCCTGGAGGA
 GGAGCTGAGCCGAGTGAAAGCAGCGGCACTCAGCGAGCGTGGCCAGGCTGAGGAGGAGCTGATCAAGGCC
 AAGAGCCAGGCCCGCCTGGAGGAGCAACAGCGCCTGGCTCACCTGGAGGACAAGCTGAGACTGCTGGCGC
 AGGCACGGGACGAGGCGCAGGGCGCTTGCCTACAGCAGAAGCAGGTGGTGGCCGAGGCCAGACCCGGGT
 CAGCCAGCTGGGCTGCAAGTTGAGGGCTGCGCGGCGCCTGGAAGAGCTGCAGCAGGAGCTGAGCCTC
 AAGGACCAGGAAAGGTGGCCGAGGTGAGCAGGTGCGCGTGGAGCTGCAGGAGCAGAACGCCCGGCTGC
 AGGCGGAGCTGGCGGCTCAGGAGGCGCTGAGGGAGAAGGCGCGGCCCTGGAGCGCCAGCTGAAAGTGAT
 GGCGAGCGACCAACGAGAGGCGCTGCTGGACAGGAGAGCGAGAACGCGTCTCTCCGGGAGAAGGTGCGG
 CTCCGGGAGGCGGAGATCGCCCGCATCCGGGACGAGGAGGCCAGAGGGCGAGCTTCTGCAAGACGCCG
 TCCTGGCTTACGTGCAGCGCTCCCCGTGAGGACCTGAGCCCCCAAAG

AGCGGACCGACGCTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204359 representing NM_144999
 Red=Cloning site Green=Tags(s)

MEEFRSYSRLCRESGAEPQEAFLQQLHLPRGRDLATQSLTVETCRALGKLLPRETLCTELVLSDCML
 SEEGATLLRLGLCANTVLRFLDLKGNLRAAGAEALGKLLQNKSIQSLTLEWNSLGTWDDAFATFCGL
 AANGALQRLDLRNNQISHKGAEELALALKGNTTLQQLDLRWNNVGLLGGRALMNCLPSNRTLWRDLAGN
 NIPGDVLRVEQAMGHSQDRLTTFQENQARTHVLSKEVQHLREEKSKQFLDLMETIDKQREEMAKSSRAS
 AARVGLQELALNERHSIINALKAKLMTEAALALSEQKAQDLGELLATAEQEQLSLSQRQAKELKLEQQE
 AAERESKLLRDLAAANEKNLLQNVDELERKFRQQEQLFQTRQEMTSMAELKMRAIQAEERLDMEKR
 RCRQSLEDSESLRIKEVEHMRHLSESEKAMQERVQRLEAARLSLEEELSRVKAALSERGQAEELIKA
 KSQARLEEQQRLAHLDELKRLLAQARDEAQGACLQKQVVAEAQTRVSQLGLQVEGLRRRLEELQQELSL
 KDQERVAEVSRRVRELQEQNGRLQAEALAAQALREKAAALERQLKVMASDHREALLDRESENASLREKL
 LREAELIARIRDEEAQRASFLQNAVLAYVQASPVRTLSPPK

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_144999

ORF Size: 2010 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.

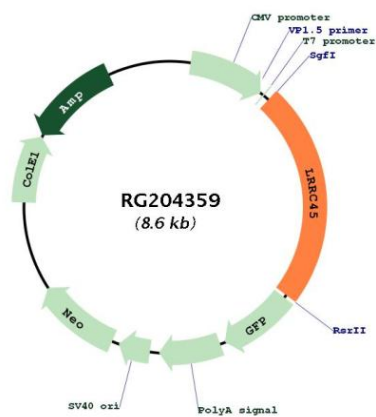
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_144999.4](#)

RefSeq Size: 2639 bp

RefSeq ORF:	2013 bp
Locus ID:	201255
UniProt ID:	Q96CN5
Cytogenetics:	17q25.3
Domains:	LRR, LRR_RI
Gene Summary:	Component of the proteinaceous fiber-like linker between two centrioles, required for centrosome cohesion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204359