

Product datasheet for **RG221563**

LRRC55 (NM_001005210) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC55 (NM_001005210) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRC55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221563 representing NM_001005210 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCAGAAGCCCCACCTTCACAGACGCTGGCCCCAGATGTAGCTGCCTTCTGTGTCACAGACTCTCG
ATTCCATGGACACAGTCCTCATGGGCTCCCTCCAGCACTGCTGTTGCCTGCTGCCTAAGATGGGTGACAC
TTGGGCCAGCTTCCCTGGCCCGGGCCACCCACCCAGCAATGCTGCTGATCTCCCTCCTTTGGCAGCC
GGGTTGATGCACTCGGATGCCGGCACCAGCTGCCCGTCCTTTGCACATGCCGTAACCAGGTGGTGGATT
GTAGCAGCCAGCGGCTATTCTCCGTGCCCCAGACCTGCCAATGGACACCCGAAACCTCAGCTGGCCCA
CAACCGCATCACAGCAGTGCCGCTGGCTACCTCACATGCTACATGGAGCTCCAGGTGCTGGATTTGCAC
AACAACTCCTTAATGGAGCTGCCCGGGGCTTCTCTCCATGCCAAGCGCTTGGCACACTTGGACCTGA
GCTACAACAATTTAGCCATGTGCCAGCCGACATGTTCCAGGAGGCCATGGGCTAGTCCACATCGACCT
GAGCCACAACCCCTGGCTGCGGAGGGTGCATCCCCAGGCCTTTCAGGGCCTCATGCAGCTCCGAGACCTG
GACCTCAGTTATGGGGGCTGGCCTTCTCAGCCTGGAGGCTCTTGAGGGCTACCGGGCTGGTGACCC
TGCAGATCGGTGGCAATCCCTGGTGTGTGGCTGCACCATGGAACCCCTGCTGAAGTGGTGCAGAAACCG
GATCCAGCGCTGTACAGCAGATTCTCAGCTGGCTGAGTGGCGGGCCCTCCTGAAGTCGAGGGCGCCCCG
CTTTCTCACTCACTGAGGAGAGCTTCAAGGCCTGCCACCTGACCCTGACCTGGATGATTACCTATTCA
TTGCGTTCGTGGGCTTCGTGGTCTCCATTGCTTCTGTGGCCACCAACTTCTCCTGGGCATCACTGCCAA
CTGCTGCCACCGCTGGAGCAAGGCCAGTGAAGAGGAAGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221563 representing NM_001005210
 Red=Cloning site Green=Tags(s)

MLRSPTFTDAGPRCSCLPVSQTLDSMDTVLMGSLQHCCCLLPKMGDTWAQLPWPGPHPAMLLISLLAA
 GLMHS DAGTSCPVLCTCRNQVDCSSQRLF SVPPDLPMDTRNLSLAHNRI TAVPPGYLTCYMELOVLDLH
 NNSLMELPRGLFLHAKRLAHLDL SYN NF SHVPADM FQE AHGLVHIDL SHNPWLR RVHPQAFQGLMQLRDL
 DLSYGGLAFLSLEALEGLPGLVTLQIGNPWVCCTMEPLLKWLNRRIQRCTADSQLAECRGPPEVEGAP
 L FSLTEESFKACHLTLTDDYLF IAFVGFV VSIASVATNFLLGITANCCHRWSKASEEEEI

TRTRPLE - GFP Tag - V

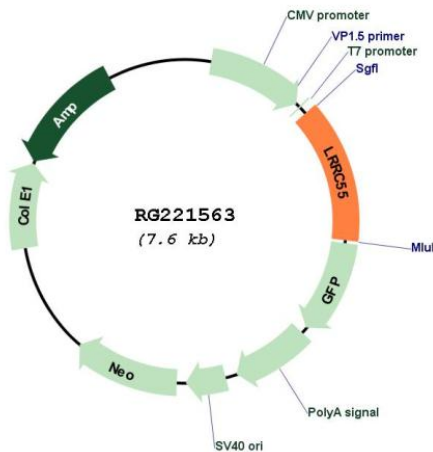
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001005210

ORF Size: 1023 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.
RefSeq:	NM_001005210.2 , NP_001005210.1
RefSeq Size:	3797 bp
RefSeq ORF:	897 bp
Locus ID:	219527
UniProt ID:	Q6ZSA7
Cytogenetics:	11q12.1
Protein Families:	Transmembrane
Gene Summary:	Auxiliary protein of the large-conductance, voltage and calcium-activated potassium channel (BK alpha). Modulates gating properties by producing a marked shift in the BK channel's voltage dependence of activation in the hyperpolarizing direction, and in the absence of calcium.[UniProtKB/Swiss-Prot Function]