

Product datasheet for **RG223581**

LRRC23 (NM_006992) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LRRC23
Synonyms:	LRPB7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223581 representing NM_006992
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTCAGATGAAGATGATCTAGAAGACTCTGAGCCAGACCAGGATGATTCTGAGAAAGAAGAGGACGAGA
AGGAGACAGAGGAGGGGAGGACTACAGAAAAGAGGGGAAGAGTTCCTGAGGAATGGCTGCCCCACCC
CCTCACGGAGGACATGATGAAGGAAGGGCTTTCTGCTCTGTAAGACAGGCAATGGCTGGCTCATGCT
TATGTCAAGCTGGAGGTTAAAGAGAGGGACCTGACAGACATCTACTTGTGCGCTCCTACATCCATCTGC
GCTATGTGGATATTTCTGAGAACCCTGACAGACCTGTCTCCACTCAACTACCTCACCCACCTGCTCTG
GCTCAAGGCTGATGGCAATCGGCTGCGAAGTGCCAGATGAATGAAGTGCCTACCTGCAGATTGCTAGT
TTTGCTTATAACCAGATTACTGACACTGAAGGCATCTCTATCCTCGTCTTGAAACCCTGAATCTCAAAG
GGAACAGCATCCACATGGTGACAGGTCTGGACCCGAGAAGTTGATCAGCCTGCACACAGTGGAGCTTCG
GGGGAACAGCTGGAAAGCACCTGGGAATCAATCTTCTAAGCTGAAGAACCCTCTACCTGGCCCAAAAC
ATGCTGAAGAAGGTGGAAGGCTTGGAGGATCTGAGCAATCTCACCACCTTGATCTTCGAGACAACCAGA
TTGACACCCTGAGTGGCTTCTCCAGAGAAATGAAATCATTGCACTACCTCAACCTGAGGAGATCAAAGAC
GCTGGCCTTCAGACCTGATCAGACTCCAGGGGCAGCCACCACATGTATGACAGAGAACAGAGGATGCCT
GTTTTTGCCCAAGCTGGAATTCATCACAACTGAGGCCAGGATCTGCTCTGTGCCGGTCTCTGGG
CAGTGTGGGTGCAGAATGGGTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG223581 representing NM_006992
Red=Cloning site Green=Tags(s)

MSDEDDLEDSEPDQDDSEKEEDEKETEAGEDYRKEGEEFPPEWLPTPLTEDMMKEGLSLLCKTGNGLAHA
YVKLEVKERDLTDIYLLRSYIHLRYVDISENHLTDLSPNLTHLLWLKADGNRLRSAQMNELPYLQIAS
FAYNQITDTEGISHPRLETNLKGNSIHMTGLDPEKLI SLHTVELRGNQLESTLGINLPKLKNLYLAQN
MLKKVEGLEDSLNTTLHLRDNQIDTLSGFSREMKSLQYLNLRSSKTLAFRPDQTPRGSHHMYDREQRMP
VFAPKLEIHHNLRPRICSVPLWAVWGAEWGA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: NM_006992

ORF Size: 936 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_006992.4

RefSeq Size: 1352 bp

RefSeq ORF: 939 bp

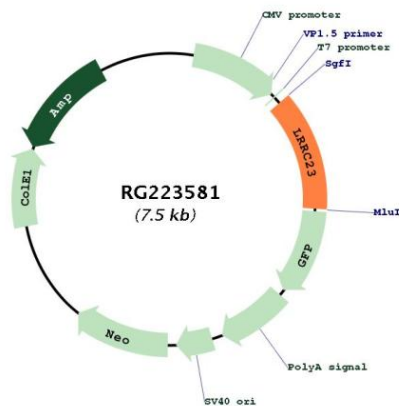
Locus ID: 10233

UniProt ID: Q53EV4

Cytogenetics: 12p13.31

Domains: LRR, LRR_SD22

Product images:



Circular map for RG223581