

## Product datasheet for **RG216196**

### LRRC2 (NM\_024512) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LRRC2 (NM_024512) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216196 representing NM_024512 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGACATAAAGTGGTTGTCTTCGACATTTCTGTCATCAGAGCCTTGTGGGAACTCGTGTCAAGAAGC  
ACAAAGCTTGGCAGAAGAAGGAGGTGAAAGGCTTGAAGAGCGCCTTGGAGAAGATAAAGGAGGAGTG  
GAACTTTGTGGCCGAATGCAGGAGGAAGGGCATCCCCAGGCTGTATACTGCAAGAATGGCTTCATAGAC  
ACCAGCGTGGCGTCTTGACAAGATTGAAAGGAACACTCTACAAGGCAGAGTTCACCTCCCAAGGACA  
GAGGCAAACGGAGCAGTGCCTTTGTGTTGAACCTTCTGGGGAGCACTGGACGGAGCTCCAGATTCATT  
GAAGGAGCAGACACCTGAGAGAATGGTACATAAGCAATACCTTGATTCAAATCATTCTACATATATT  
CAGTTATTTCAAGAGATGAGAATTCTGGATCTGCCAAAAACCAAATCTCACATCTCCAGCAGAAATCG  
GTTGTTTGAAGAACCTGAAAGAACTCAATGTGGGTTTCAACTATCTGAAGAGCATTCTCCAGAATTGGG  
AGATTGTGAAAATCTAGAGAGACTGGATTGTTCTGGAAATCTAGAATTAATGGAGCTGCCCTTTGAATTA  
AGTAATTTGAAGCAAGTTACATTTGTAGATATCTCAGCAAACAAGTTTTCCAGTGTCCCAATCTGTGTCC  
TGCGGATGTCGAATTTGCAGTGGTTGGATATCAGCAGCAATAACCTGACCGACCTGCCGCAAGATATAGA  
CAGGCTAGAGGAGCTGCAGAGCTTCTCTGTATAAAAAACAAGTTGACCTACCTTCCTATTCCATGCTG  
AACCTGAAGAAGCTCACTCTGTTAGTCGTCAGTGGGACCATTTGGTGGAGCTCCCAACTGCCCTTTGTG  
ACTCATCCACACCTTTAAAATTTGTAAGCCTTATGGACAATCCTATTGATAATGCCCAATGTGAAGATGG  
CAATGAAATAATGGAAAGTGAACGGGATCGCCAACATTTTGATAAAGAAGTTATGAAGCCTATATTGAA  
GACCTTAAAGAAAGAGAATCTGTTCCCGACTATACCACCAAAGTGTCTTTTAGCCTTCAACTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG216196 representing NM\_024512  
Red=Cloning site Green=Tags(s)

MGHKVVVFDISVIRALWETRVKHKHAWQKKEVERLEKSALEKIKEEWNFVAECRRKGIPQAVYCKNGFID  
 TSVRLLDKIERNTLTRQSSLPKDRGKRSSAFVVELSGEHWTELPDSLKEQTHLREWYISNTLIQIPTYI  
 QLFQEMRILDLKPNQISHLPAEIGCLKNLKNLVGFNYLKSIPPELGDCENLERLDCSGNLELMELPFEL  
 SNLKQVTFVDISANKFSSVPICVLRMSNLQWLDISSNNLTDLPQDIDRLEELQSFLLYKNKLTYPYSML  
 NLKKLTLVVSGDHLVELPTALCDSSTPLKVFSLMDNPIDNAQCEDGNEIMESERDRQHFDKEVMKAYIE  
 DLKERESVPSYTTKVSFSLQL

TRTRPLE - GFP Tag - V

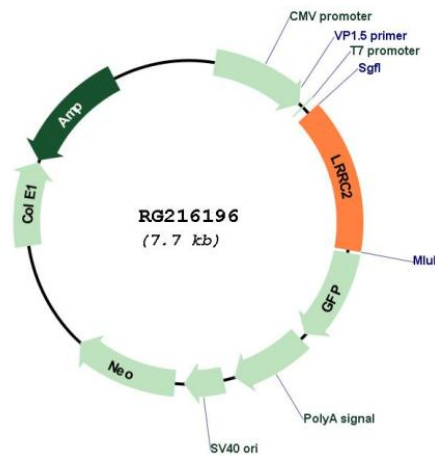
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_024512

<b>ORF Size:</b>	1113 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024512.2</a> , <a href="#">NP_078788.1</a>
<b>RefSeq Size:</b>	4860 bp
<b>RefSeq ORF:</b>	1116 bp
<b>Locus ID:</b>	79442
<b>UniProt ID:</b>	<a href="#">Q9BYS8</a>
<b>Cytogenetics:</b>	3p21.31
<b>Domains:</b>	LRR, LRR_TYP, LRR_PS
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a member of the leucine-rich repeat-containing family of proteins, which function in diverse biological pathways. This family member may possibly be a nuclear protein. Similarity to the RAS suppressor protein, as well as expression down-regulation observed in tumor cells, suggests that it may function as a tumor suppressor. The gene is located in the chromosome 3 common eliminated region 1 (C3CER1), a 1.4 Mb region that is commonly deleted in diverse tumors. A related pseudogene has been identified on chromosome 2. [provided by RefSeq, Sep 2011]