

## Product datasheet for **SC111751**

### **LRRN5 (LRRN2) (NM\_006338) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	LRRN5 (LRRN2) (NM_006338) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRRN2
Synonyms:	FIGLER7; GAC1; LRANK1; LRRN5
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006338, the custom clone sequence may differ by one or more nucleotides

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ATGAGGCTTCTCGTGGCCCCACTCTTGCTAGCTTGGGTGGCTGGTGCCTACTGCCGCTGTGCCCGTGGTAC
CCTGGCATGTTCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCTTA
CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCTGACGGCAGTCCCCCGGCACTCCCCGAGGC
ACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAGTGAGCTGGGCTACCTGGCCA
ATCTCACAGAGCTGGACCTGTCCAGAACAGCTTTTCGGATGCCCGAGACTGTGATTTCCATGCCCTGCC
CCAGCTGCTGAGCCTGCACCTAGAGGAGAACCAGCTGACCCGGCTGGAGGACCACAGCTTTGACAGGGCTG
GCCAGCCTACAGGAACCTATCTCAACCACAACCAGCTTACCGCATCGCCCCAGGGCCTTTTCTGGCC
TCAGCAACTTGTGCGGCTGCACCTCAACTCCAACCTCCTGAGGGCCATTGACAGCCGCTGGTTTGAAT
GCTGCCAACTTGAGATACTCATGATTGGCGCAACAAGGTAGATGCCATCCTGGACATGAACTCCGG
CCCCTGGCCAACCTGCGTAGCCTGGTGTAGCAGGCATGAACCTGCGGGAGATCTCCGACTATGCCCTGG
AGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAACCAGCTGGCCCGGTGCCAGCGGGCACT
GGAACAGGTGCCCGGGCTCAAGTTCCTAGACCTCAACAAGAACCCTCCAGCGGTAGGGCCGGGGGAC
TTTGCCAAACATGCTGCACCTAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGT
TTGCCCTGGTGAACCTCCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCTTCAATCCA
CCCCCGCCCTTCCACCCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACGCTCTCAGTGCCTTG
CACCAGCAGACGGTGGAGTCCCTGCCAACCTGCAGGAGGTAGGTCTCCACGGCAACCCCATCCGCTGTG
ACTGTGCATCCGCTGGGCAATGCCACGGGCACCCGTGTCCGTTTCATCGAGCCGAATCCACCCTGTG
TGCGGAGCCTCCGACCTCCAGCGCTCCCGGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGT
TTGCCCTCATCTCCCCACGAAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGTCTGC
ATTGCCGGGCACTGGCCGAACCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGACTGACACC
TGCCCATGCAGGCAGGAGGTACCGGTGTACCCGAGGGGACCCTGGAGCTGCGGAGGGTACAGCAGAA
GAGGCAGGGCTATACACCTGTGTGGCCAGAACCTGGTGGGGGCTGACACTAAGACGGTTAGTGTGGTTG
TGGGCGTGTCTCCTCCAGCCAGGCAGGGACGAAGGACAGGGGCTGGAGCTCCGGGTGCAGGAGACCCA
CCCCTATCACATCCTGCTATCTTGGTCACCCCACCAACACAGTGTCCACCAACCTCACCTGGTCCAGT
GCCTCCTCCTCCGGGGCAGGGGGCCACAGCTTGGCCCGCTGCCTCGGGGAACCCACAGCTACAACA
TTACCCGCCTCCTCAGGCCACGGAGTACTGGCCTGCCTGCAAGTGGCCTTTGCTGATGCCACACCCA
GTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCCTTAGGGGACCGTCTGGG
CTATTGCCATCCTGGCTCTCGCTGTCTTCTCCTGGCAGCTGGGCTAGCGGCCACCTTGGCACAGGCC
AACCCAGGAAGGGTGTGGGTGGGAGCGGCCTCTCCCTCAGCCTGGGCTTTCTGGGGCTGGAGTGCCCC
TTCTGTCCGGTGTGTCTGCTCCCTCGTCTGCCCTGGAATCCAGGGAGGAAGCTGCCAGATCCTCA
GAAGGGGAGACACTGTTGCCACCATTGTCTCAAAATTCTTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006338 unedited  NNGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATCGGCACGAGGNAGAAGC  ATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCTGGGAGGGTGGTTC  CTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCAG  ACTCTTCTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTCGTGGCCCA  CTCTTGTAGCTTGGGTGGTGGTGCCACTGCCCTGTGCCGTGGTACCCTGGCATGTT  CCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCTAC  CGCGAGGCTACCACTGTGGACTGCAATGACCTATTCTGACGGCAGTCCCCCGGCACTC  CCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGGACCAGAGT  GAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGAT  GCCCGAGACTGTGATTTCCATGCCCTGCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAAC  CAGCTGACCCGGCTGGAGGACCACAGCTTTCAGGGCTGGCCAGCCTACAGGAACCTAT  CTCAACCACAACCAGCTTACCGCATCGCCCCAGGGCCTTTTCTGGCCTCAGCAACTT  GCTGCGGCTGCACCTCAACTCCAACCCTCTGAGGCCATTGACAGCCGCTGGGTTTGAAA  TGCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAGGGTAGATGCCATCCTGGACT  GAAACTNCGGCCCTGCCAACCTGCGTAGCCTGTGNCTAGCAGCATAACTGGGCGGA  GATCTCGACATCCTCTGGAAGGGCTGCAAGCCTGGAAG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006338 unedited  NCCTTACTTGNNACCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTCTTT  CGTTCTTTCCCGTATTATTGTTATTATTTATTTTATTTTTTACAAAACAGGGAGAA  AAGAGTGAATCGGTTGGGGAGGTGACACATTTCTCCACAAGGGTACAAAATTGCCTAT  AGAAAGTCAGCTTCGGAATGCCGAGCCAGGCTGCTGAGATGAGGCGTTCTGGGCATCC  CTCTCCAAATGTCTTCAGATCTGGCTGGGGTCACTCCACATTGAGGGCAGCCCCCG  AGGTGAGATGGAGTGGCCTCCTTCAGCCCTTGCCAGGAGGCACAAGAGCAAGCAACTGA  GACTGTACAGAGAAAGAGAAGAGGAAGGGTGCAGCCCGGGACACAGGTAGGGGACAGC  CAAGCCAGGCCAGGAGCCTCTGGGCAGAGAGAAGATGGGGAGGCAGGAGGCTTAGCCA  AAGTCCCTCCTGTTCTTGGAGATGTTCTCAGAATGGCAGCAGAGGTGACCCTAGGAGG  TAAGGCCAACTTTTTCGAGGCTGCAGAAGCACCCCGGGCCACAAGCCCCATGTCT  TGGCCCAGCTGCCAGGCCCAAGCACGTGGGTCCATGTCCCTTTCTGGCAGGGCATCTG  GCCAGACTGCTTCTCTTTGGTAAAAAGTAGTCTAGTGATTTCTACTGCTGAGAAC  AGGCTGAGCTTCAAGAATTTTGAGACAATGGTGGCAACAGTGTCTCCCCTTCTNGAGATC  TGGGCAGCTTCTCCCTGGATTCCAGGGCAGGACGAGGGGAGCAGACACACNCGGACAGA  GGGGCACTNACGCCCANAAAGCCAGCTGGAGGGAGAGGCCGCTCCACCACACCTTTC  TGGNTGCCTGTGCCAGGTGGGGCGCTACCACTGCCAGAGAGGAAGCGAAGA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006338
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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).

**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.

**RefSeq:** [NM\\_006338.2](#), [NP\\_006329.2](#)

**RefSeq Size:** 3227 bp

**RefSeq ORF:** 2142 bp

**Locus ID:** 10446

**UniProt ID:** [O75325](#)

**Cytogenetics:** 1q32.1

**Domains:** LRRNT, LRRCT, LRR, ig, LRR\_TYP, IGc2, IG, LRR\_SD22, LRR\_PS

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene belongs to the leucine-rich repeat superfamily. This gene was found to be amplified and overexpressed in malignant gliomas. The encoded protein has homology with other proteins that function as cell-adhesion molecules or as signal transduction receptors and is a candidate for the target gene in the 1q32.1 amplicon in malignant gliomas. Two alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 2. Variants 1 and 2 encode the same isoform.