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Product datasheet for SC100827

LRIG3 (NM_153377) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRIG3 (NM_153377) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRIG3
Synonyms:	LIG3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153377, the custom clone sequence may differ by one or more nucleotides

ATGAGCGCGCCGAGCCTCCGTGCGCGCGCCGCGGGGTTGGGGCTGCTGCTGTGCGCGGTGCTGGGGCGCG
CTGGCCGGTCAGACAGCGGCGGTCGCGGGGAACTCGGGCAGCCCTCTGGGGTAGCCGCCGAGCGCCCATG
CCCCACTACCTGCCGCTGCCTCGGGGACCTGCTGGACTGCAGTCGTAAGCGGCTAGCGCGTCTTCCCGAG
CCACTCCCGTCCTGGGTCGCTCGGCTGGACTTAAGTCACAACAGATTATCTTTCATCAAGGCAAGTTCCA
TGAGCCACCTTCAAAGCCTTCGAGAAGTGAAACTGAACAACAATGAATTGGAGACCATTCCAAATCTGGG
ACCAGTCTCGGCAAATATTACACTTCTCTCCTTGGCTGGAAACAGGATTGTTGAAATACTCCCTGAACAT
CTGAAAGAGTTTCAGTCCCTTGAAACTTTGGACCTTAGCAGCAACAATATTTCAGAGCTCCAAACTGCAT
TTCCAGCCCTACAGCTCAAATATCTGTATCTCAACAGCAACCGAGTCACATCAATGGAACCTGGGTATTT
TGACAATTTGGCCAACACACTCCTTGTGTTAAAGCTGAACAGGAACCGAATCTCAGCTATCCCACCCAAG
ATGTTTAAACTGCCCCAACTGCAACATCTCGAATTGAACCGAAACAAGATTAAAAATGTAGATGGACTGA
CATTCCAAGGCCTTGGTGCTCTGAAGTCTCTGAAAATGCAAAGAAATGGAGTAACGAAACTTATGGATGG
AGCTTTTTGGGGGCTGAGCAACATGGAAATTTTGCAGCTGGACCATAACAACCTAACAGAGATTACCAAA
GGCTGGCTTTACGGCTTGCTGATGCTGCAGGAACTTCATCTCAGCCAAAATGCCATCAACAGGATCAGCC
CTGATGCCTGGGAGTTCTGCCAGAAGCTCAGTGAGCTGGACCTAACTTTCAATCACTTATCAAGGTTAGA
TGATTCAAGCTTCCTTGGCCTAAGCTTACTAAATACACTGCACATTGGGAACAACAGAGTCAGCTACATT
GCTGATTGTGCCTTCCGGGGGCTTTCCAGTTTAAAGACTTTGGATCTGAAGAACAATGAAATTTCCTGGA
CTATTGAAGACATGAATGGTGCTTTCTCTGGGCTTGACAAACTGAGGCGACTGATACTCCAAGGAAATCG
GATCCGTTCTATTACTAAAAAAGCCTTCACTGGTTTGGATGCATTGGAGCATCTAGACCTGAGTGACAAC
GCAATCATGTCTTTACAAGGCAATGCATTTTCACAAATGAAGAAACTGCAACAATTGCATTTAAATACAT
CAAGCCTTTTGTGCGATTGCCAGCTAAAATGGCTCCCACAGTGGGTGGCGGAAAACAACTTTCAGAGCTT
TGTAAATGCCAGTTGTGCCCATCCTCAGCTGCTAAAAGGAAGAAGCATTTTTGCTGTTAGCCCAGATGGC
TTTGTGTGTGATGATTTTCCCAAACCCCAGATCACGGTTCAGCCAGAAACACAGTCGGCAATAAAAGGTT
CCAATTTGAGTTTCATCTGCTCAGCTGCCAGCAGCAGTGATTCCCCAATGACTTTTGCTTGGAAAAAAGA

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CAATGAACTACTGCATGATGCTGAAATGGAAAATTATGCACACCTCCGGGCCCAAGGTGGCGAGGTGATG
GAGTATACCACCATCCTTCGGCTGCGCGAGGTGGAATTTGCCAGTGAGGGGAAATATCAGTGTGTCATCT
CCAATCACTTTGGTTCATCCTACTCTGTCAAAGCCAAGCTTACAGTAAATATGCTTCCCTCATTCACCAA
GACCCCCATGGATCTCACCATCCGAGCTGGGGCCATGGCACGCTTGGAGTGTGCTGCTGTGGGGCACCCA
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AGCTCAGAACAGTGCAGGAAGTATTTCAGCAAATGCAACTCTGACTGTCCTAGAAACACCATCATTTTTG
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AGCATTACCAACACAGATGAGACCAACTTGCCAGCAGATATTCCTAGTTATTTGTCATCTCAGGGAACGT
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TGCGAACGGAGCTTCAGTAATATATCGTGGCCTTCACATGTGAGGAAGCTACTTAACACTAGTTACTCTC
ACAATGAAGGACCTGGAATGAAAAATCTGTGTCTAAACAAGTCCTCTTTAGATTTTAGTGCAAATCCAGA
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GATGCCTATTCAAGCTTTGGACAGCCATCAGATTGTCAGCCAAGAGCCTTTTATTTGAAAGCTCATTCTT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_153377 unedited
CTCAGTGAGCTGGACCTAACTTTCAATCACTTATCAAGGTTAGATGATTCAAGCTTCCTT
GGCCTAAGCTTACTAAATACACTGCACATTGGGAACAACAGAGTCAGCTACATTGCTGAT
TGTGCCTTCCGGGGGCTTTCCAGTTTAAAGACTTTGGATCTGAAGAACAATGAAATTTCC
TGGACTATTGAAGACATGAATGGTGCTTTCTCTGGGCTTGACAAACTGAGGCGACTGATA
CTCCAAGGAAATCGGATCCGTTCTATTACTAAAAAAGCCTTCACTGGTTTGGATGCATTG
GAGCATCTAGACCTGAGTGACAACGCAATCATGTCTTTACAAGGCAATGCATTTTCACAA
ATGAAGAAACTGCAACAATTGCATTTAAATACATCAAGCCTTTTGTGCGATTGCCAGCTA
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GCCCATCCTCAGCTGCTAAAAGGAAGAAGCATTTTTGCTGTTAGCCCAGATGGCTTTGTG
TGTGATGATTTTCCCAAACCCCAGATCACGGTTCAGCCAGAAACACAGTCGGCAATAAAA
GGTTCCAATTTGAGTTTCATCTGCTCAGCTGCCAGCAGCAGTGATTCCCCAATGACTTTT
GCTTGGAAAAAAGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_153377 unedited
NGGGGNNNNNNNTTTTTNNGGGTTTGACTATGGAACCGCGNCCGCATNCTAGNGATCGAT
TTTTTTTTTTTTTTTTTTTCAAATTGACACATTTTATTAAATATAATGTGCAAAATATAA
TGAAGTAACTTCTATTTAAAAAATGGTACAAGGCAGGTATTATTTAAAATGCTTTAGTAA
CTCATTTTCCATAAAAAGAAATCTGGCATTATAAAAATACATAAAATAATCATGATTTAT
ATCATTAATTTACGTAAGATACTTTTTTGCATAAAACAAAGTTAAAAAATAGTTTAAAAA
GGTATTCTTATATGAGCATCATTCCCAGTATAAAAATTTTCATAACTTTTTGTAATTTTG
GTTCATCTGTATAAATAAAGCATTTTTATCCTTTTAAAATTCATAACTCCATTTAAAAAA
CATAAGATTCTCTCTCTTTTAAATAAAAGTTCACTTGAGGTAGTATGTTAAGCTTTTCCT
TTGGTCTCATTCAGTCTATGTGTCCAAGTCATAAGACTGAAAATTTGGAGTCCTGTAGTT
TTCTAAAGTCTGTTTAAAGGTACAAATGTGATTTTCTTCCTGAAAATCTGTCCTTTCTTT
CCCATCTTCCTCTGACCCAGAGTCCAAGTCTGGGGGAAGAATGGAGCTTTTCAATAAAAG
GGCTCTTTGGNCTGACAATCTGATGGGCTGTTCAAAGCCTTGAATAGGGCATCTAGGTGA
AGGTCTCCCTGAGAGCTTTTCCAAAAGTACCCCATGAAAGGAATTACTCGAAGGCACCCG
ACGCTTGGCTCTGGATTTTGCACTAAAATCTTAAAGAGGACTTGTTTAGACACAGATTTT
TTCATTTCCAGTCCCTTCATTGTGAGAGTAACTAGTGTTAAGTC

Restriction Sites: NotI-NotI

ACCN: NM_153377

Insert Size: 3000 bp

OTI Disclaimer: 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).

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.

RefSeq: NM_153377.2, NP_700356.1

RefSeq Size: 4110 bp

RefSeq ORF: 4110 bp

Locus ID: 121227

UniProt ID: Q6UXM1

Cytogenetics: 12q14.1

Domains: LRRCT, ig

Protein Families: Transmembrane

Gene Summary: May play a role in craniofacial and inner ear morphogenesis during embryonic development. May act within the otic vesicle epithelium to control formation of the lateral semicircular canal in the inner ear, possibly by restricting the expression of NTN1 (By similarity). [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region and represents the use of an alternate promoter, compared to variant 1, which results in a protein (isoform 2) with a shorter and distinct N-terminus, compared to isoform 1.