

Product datasheet for **RG219350**

LRIG3 (NM_153377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRIG3 (NM_153377) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRIG3
Synonyms:	LIG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219350 representing NM_153377 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGCGCCGAGCCTCCGTGCGCGCGCCGCGGGTTGGGGCTGCTGCTGTGCGCGGTGCTGGGGCGCG
CTGGCCGGTCCGACAGCGCGGTGCGGGGAACCTCGGCAGCCCTCTGGGGTAGCCGCGAGCGCCCATG
CCCCACTACCTGCCGCTGCCTCGGGACCTGCTGGACTGCAGTCGTAAGCGGCTAGCGCGTCTTCCCGAG
CCACTCCCGTCTGGGTGCTCGGCTGGACTTAAGTCAACAACAGATTATCTTTCATCAAGCAAGTTCCA
TGAGCCACCTTCAAAGCCTTCGAGAAGTGAACGAACAACAATGAATTGGAGACCATTCCAATCTGGG
ACCACTCTCGGCAATATTACACTTCTCTCCTTGCTGGAACAGGATTGTTGAAATACTCCCTGAACAT
CTGAAAGAGTTTCACTCCCTGAACTTTGGACCTTAGCAGCAACAATATTTTCAGAGCTCCAACACTGCAT
TTCCAGCCCTACAGCTCAAAATCTGTATCTCAACAGCAACCGAGTCACATCAATGGAACCTGGGTATTT
TGACAATTTGGCCAACACACTCCTTGTGTTAAAGCTGAACAGGAACCGAATCTCAGCTATCCCACCCAAG
ATGTTTAAACTGCCCAACTGCAACATCTCGAATTGAACCGAAACAAGATTAAAAATGTAGATGGACTGA
CATTCCAAGGCCCTTGGTCTCTGAAGTCTCTGAAAATGCAAGAAATGGAGTAACGAACTTATGGATGG
AGCTTTTTGGGGCTGAGCAACATGAAATTTGACGCTGGACCATAACAACCTAACAGAGATTACAAA
GGCTGGCTTTACGGCTTGTGATGCTGCAGGAACCTCATCTCAGCCAAAATGCCATCAACAGGATCAGCC
CTGATGCCTGGGAGTTCTGCCAGAAGCTCAGTGAGCTGGACCTAACTTTCAATCACTTATCAAGGTTAGA
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TTTGTGTGATGATTTTCCAAACCCAGATCACGGTTCAGCCAGAAACACAGTCGGCAATAAAAGGT
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 CCCCAGACTTGGACTCTGGGTGAGAGGAAGATGGGAAAGAAAGGACAGATTTTCAGGAAGAAAATCACAT
 TTGTACCTTTAAACAGACTTTAGAAAACACAGGACTCCAATTTTTCAGTCTTATGACTTGGACACA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219350 representing NM_153377
 Red=Cloning site Green=Tags(s)

MSAPSLRARAAGLGLLLCAVLGRAGRSDSGGRGELGQPSGVAERPCPTTCRCLGDLLDCSRKRLARLPE
 PLPSWVARLDL SHNRLSFIKASSMSHLQSLREVKLNNLEETIPNLGPV SANITLLSLAGNRIVEILPEH
 LKEFQSLETLDLSSNNISELQTAFPALQLKYL YLNSNRVTSMEPGYFDNLANTLLVLKLNRRISAIPPK
 MFKLPQLQHL ELNRNKIKNVDGLTFQGLGALKSLKMQRNGVTKLMDFWGLSNMEILQLDHNNTLITK
 GWLYGLMLQELHL SQNAINRISPDAWEFCQKLELDLTFNHL SRLDDSSFLGLSLLNTLHIGNNRVSYI
 ADCAFRGLSSLKTLDLKNEISWTIEDMNGAFSGLDKLRRILIQNRIRSIKKAFTGLDALEHLDLSDN
 AIMSLQGNFASQMKKLQQLHLNNTSSLLCDCQLKWL PQWVAENNFQSFVNASCAHPQLLKGRSIFAVSPDG
 FVCDFFPKPQITVQPETQSAIKGSNL SFICSAASSDSPMTFAWKDNE LLHDAEMENYHLRAQGGEVM
 EYTTILRLREVEFASEGKYQCVISNHFSSYSVKAKL TVNMLPSFTKTPMDLTIRAGAMARLECAAVGHP
 APQIAWQKDGTDFFAARERRMHVMPEDDVFFIVDKIEDIGVYSCTAQNSAGSISANATLVLETSPFL
 RPLLDRTVTKGETAVLQCIAGGSPPPKNLNTKDDSP LVVTERHFFAAGNQLLIIVDSDVSDAGKYCEMS
 NTLGTERGNVRLSVIPTPTCDSPQMTAPSLDDDGWATVGVVIIAVVCCVGTSLVWVVIIVHTRRRNEDC
 SITNTDETNPADIPSYLSSQGLADRQDGYVSSSESGSHHQFVTSAGGFLLPQHDSSTGCHIDNSSEAD
 VEAATDLFLCPFLGSGTGPYMLKGNVYGSDFPETYHTGCSPPRPTVLMHDHYEPSYIKKKECYPCSHPSEES
 CERSFSNISWPSHYRKLNTSYSHNEGPMKNLCLNKSSLD SANPEPASVASSNSFMGTGFKALRRPHL
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TRTRPLE – GFP Tag – V

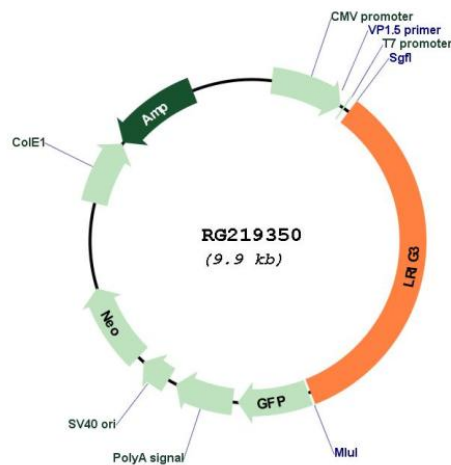
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_153377

ORF Size: 3357 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:	<u>NM_153377.3, NP_700356.2</u>
RefSeq Size:	4053 bp
RefSeq ORF:	3360 bp
Locus ID:	121227
UniProt ID:	<u>Q6UXM1</u>
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]