

Product datasheet for **MG211657**

Lrig3 (NM_177152) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrig3 (NM_177152) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lrig3
Synonyms:	9030421L11Rik; 9130004I02Rik; 9430095K15Rik; mKIAA3016
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211657 representing NM_177152 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC

ATGGGTGCTCCCGGACTCCGAGCGGCCACCGCGGCGCTGGGACTGCTGCTGTGCGCGGGGCTGGGGCGCGCGGGCCCGGGGAAGCGGAGGCCACGGGGCTCCCGGCAGCTCTTGGACGACGATGCGCAGCGCCCGTGTCCAGCCGCTGCCACTGCCTCGGGACCTGCTGGACTGCAGCCGGCGGGCTGGTTCGCCTCCCGATCCTCTCCCGGCTGGGTACACGGCTGGACCTGAGTCAACAACAGATTATCTTTTATCCAGACGAGTTCCCTGAGCCACCTTCAAAGCCTTCAAGAAGTGAAGCTGAACAACAATGAATTAGAGACCATTCCAACCTGGGATCCATCTCTGCAAATATTAGACAGCTATCCTTGGCTGGGAACGCCATCGACAAAATCCTCCCTGAACAGCTGGAAGCCTTTCAGTCCCTTGAGACTTTGGACCTCAGCAACAATAATATTTTCAGAACTGAGAACTGCCTTTCCACCCTTACAACCTCAAGTATCTGTATATCAATAACAACCGAGTGTGCTCCATGGAACAGGGTATTTGACAATTTGGCGAGCAGCTCCTGGTGTGAAGCTGAACAGGAACCGCATCTCAGCCATCCCTCCCAAGATGTTTAAACTGCCTCAGCTGCAGCACCTTGAGCTGAACAGAAACAAGATTAAGAACGTGGATGGACTCAATTCCAAGGACTTGGTGCAGTGAAGTCTCTGAAAATGCAAAGAAACGGAGTGACAAAGCTGATGGATGGAGCTTTTGGGGGCTGAGCAACATGGAAGTCTGCAGCTGGACCATAACAACCTAACCGAGATTACCAAAAGCTGGCTCTATGGCTTGTGATGCTGCGGGAACCTTCATCTGAGCCAGAACGCCATCAACAGGATCAGCCCGGATGCCTGGGAGTTCTGCCAGAACTCAGTGAGCTAGACCTGACTTTCAACCACTTATCAAGGCTAGACGATTCCAGCTTCTGGGCCCTAAGCCTACTAAATGCCCTCCACATTGGGAATAACAAGTCAAGTACCTGCTGACTGTGCCTCCGGGGGCTTACCAGTTTAAAGACTTTGGATCTGAGGAACAATGAAATCTCATGGAATCCATCGAAGACATGAGTGGGGCATTCTCTGGGCTGGACAGATTGAGGCAACTAATTCTCCAGGAAACCGGATTTCGATCTATTACAAAAAGGCTTCGCTGGTTTGGACACATTGGAACACCTGGACCTGAGTGGCAACGCCATCATGTCTACAGAGCAATGCGTTTTCCAAATGAAGAACTTCAGCAGCTGCATTTAAATACGTCGAGCCTTTGTGTGACTGCCAGCTGAGATGGCTCCACAGTGGTGGCGGAGAACAACCTTCAGAGCTTCGTAATGCCAGTTGTGCCACCCTCAGCTGCTGAAAGGGAGGAGCATTTCACTGTCAGCCAGATGGC



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TTTGTGTGATGATTTTCCAAACCCAGATACCGTCCAGCCAGAAACGCAGTCGGCAATAAAGGGCT
 CCGACGTGAGTTTTACCTGCTCGGCTGCTAGCAGCAGTACTCCCCTATGACGTTTCGCTTGAAGAAGA
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 AGCTGGACTCTGAATCAGAAGAAAATGACAAAAGAAAGGACAGATTTTCGGGAAGAGAATCACAGGTGATC
 TTATCAACAGATATTCCACACTTACAGGACTCCAGATTGCCAGCCTTGTGATTCAGACACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211657 representing NM_177152
 Red=Cloning site Green=Tags(s)

MGAPGLRAATAALGLLLCAGLGRAGPAGSGGHGAPGQLLDDDAQRPCPAACHCLGDLLDCSRRRLVRLPD
 PLPAWVTRLDL SHNRLSFIQTSSL SHLQSLQEVKLNNELETIPNLGSI SANIRQLSLAGNAIDKILPEQ
 LEAFQSLETLDL SNNNISELRTAFPLQLKYL INNNRVSSMEPGYFDNLASTLLVLKLNRRNISAIIPK
 MFKLPQLQHLELNRNLIKNDVGLTFQGLGALKSLKMQRNGVTKLMDFWGLSNMEVLQDHNHLTEITK
 GWLYGLMLRELHLSQNAINRISPDWFEFCQKLELDLTFNHL SRLDDSSFLGLSLLNALHIGNNKVSYI
 ADCAFRGLTSLKTLDLRNEISWTIEDMSGAFSGLDRLRQLILQGNRIRSIKKAFAGLDLLEHDLSGN
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 EYTTILRLRNVEFTSEGYQCVISNHFSSYSVKAKLTINMLPSFTKTPMDLTIRAGAMARLECAAVGHP
 APQIAWQKDGTDFFAARERRMHVMPEDDVFFIVDKIEDIGVYSCTAQNAGSVSANATLTVLETPSFL
 RPLLDRTVTKGETAVLQCIAGGSPPRLNWTKDSDPLVTERHFFAAGNQLLIIIVSDSDVSDAGKYCEMS
 NTLGTERGNVRLSVIPTPTCDSPHMTAPSLDGDGWATVGVVIIAVVCCVGTSLVWVVIIVHTRRRNEDC
 SITNTDETNL PADIPSYLSSQGTADRQGYISSESGSHHQFVTS SGGGFLLPQHGDGAGTCHFDDSEAD
 VEAASDPFLCPFVGSTGPVYLQGNLYSPDPFEVYLPGCCSDPRTALMDHCESSYVKQDRFSCARPSEEP
 ERSLSKIPWPHSRKLTSTYPPNEGHTVQTLCLNKSSVDFSTGPEPGSATSSNSFMGTGFKPLRRPHLDA
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TRTRPLE - GFP Tag - V

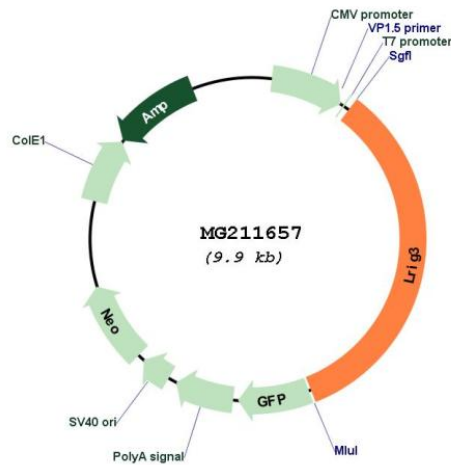
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177152

ORF Size: 3351 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_177152.5, NP_796126.4</u>
RefSeq Size:	4050 bp
RefSeq ORF:	3354 bp
Locus ID:	320398
UniProt ID:	<u>Q6P1C6</u>
Cytogenetics:	10 D3
Gene Summary:	Plays a role in craniofacial and inner ear morphogenesis during embryonic development. Acts within the otic vesicle epithelium to control formation of the lateral semicircular canal in the inner ear, possibly by restricting the expression of NTN1.[UniProtKB/Swiss-Prot Function]