

Product datasheet for **RG224949**

LRIT1 (NM_015613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRIT1 (NM_015613) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRIT1
Synonyms:	FIGLER9; LRRC21; PAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224949 representing NM_015613
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGTGGCATTAGGCATGCTCTGGCTCTTGGCCCTTGGTGGCCCCCAGGCCGGGGCTTCTGCC
 CCTCTCAATGCAGCTGCAGCCTCCATATCATGGGTGATGGCAGCAAGGCCAGGACAGTAGTGCAACGA
 CCCTGACATGACCCTGCCCCCGCGTCCATCCCCCGGACACCTCCAGACTGCGCCTGGAGCGGACGGCC
 ATACGCAGGGTTCCTGGCGAGGCCTTCAAGGCCCTGGGCCGCTGGAGCAGCTGTGGCTGCCTTACAACG
 CCCTCAGCGAGCTCAACGCCCTCATGCTGCGGGGTCTGCGAGCCTGCGGGAGCTGCGGCTGCCCGGAA
 CCGCTGGCCGCTTCCCTGGCGGGCTCAGGGACGCCCAAGCTGCGGCTGCTGGACTGCAGGCC
 AACCGCTCTCGGCTGTGCCGCTGAGGCCGCGGCTTCTGGAGAACCTCACCTTCTCGACTCTCCA
 GCAACCAGCTGATGAGGCTCCCGCAGGAGCTCATCGTCTCTGGGCTCACCTGGAGACCGGTATCTTTCC
 TCCCGGCCACCCAGCGGGTCTAGGGCTACAGGACAACCCCTGGGCATGTGACTGCCGACTCTAT
 GACCTGGTTCATCTTTGGATGGCTGGGCCCAAACCTTGGCCTTATTGAGACTGAACTGAGATGTGCCA
 GCCACGTAGCCTGGCCGAGTGGCCTTCAAGCAGCTTGAAGTGAAGTGGCAGGGCCAGAGCTCCA
 TCCAGGAGTGGCCAGCATCAGGTCCCTTTGGGTGGCACAGCATTGCTACGCTGTGGAGCTACTGGAGTC
 CCTGGGCCGAGATGAGCTGGAGGAGGCCAATGGCAGGCCCTTAACGGTACAGTGCACCAGGAAGTCT
 CCAGTGACGGCACGAGCTGGACTCTGCTGGGCCTGCTGCAGTGTCCACCTTACTCCGGAGACTACAT
 CTGCCAAGCCAAGAACTTCTGGGAGCCTTGAACCTGTTATCTCCTTGATTGCTACTGAGCCCGGACT
 TCCACAGAACACAGTGGGAGCCCAGGGGCACTATGGGCAAGGACAGGTGGCGGAGGGGAAGCTGCTGCTT
 ACAACAACAAGCTGGTGGCCAGGCATGTCCCCAGATTCCAAACCCGCTGTCTGGCCACTGGACCTC
 TGTGCCACAGCACAAAGGAGGAGCTGACCCTTGAAGCACTTCCAGATGGATGCCCTGGGAGAGCTCTCTGAT
 GGGCGGGCAGGACCTCAGAGGCACGAATGGTGAAGTCTGTGAAGTGGTGGGGACACTTACCACAGCG
 TGTCTTGGTGTGAAGGCACCCAGGCTAAGAACAACCTGCCTTCAAGTGTCTCTACGCGGTCTTTGG
 GCAGCACAGCATGCGCGGGTGATTGTGCAGCCTGGGAAGACCAGAGTGACCATCACTGGGCTGTTGCC
 AAGACCAAGTATGTGGCTGTGTCTGTGTGCAGGGCCTGGTCCCGGAAGGAGCAGTGTGTTATTTCT
 CCACCAATGAAGTGGTGGATGCTGAGAACACTCAGCAGCTTATCAATGTGGTGGTATCAGTGTGGCCAT
 CGTCATTGCCCTGCCTCTCAGCTGCTTGTCTGCTGCAGTGTCTTCAAGCGCTGCCAAAGTGTCTC
 AACAGGACTCCACTGAGGCCACAGTTACCTACGTCAACCTAGAGAGACTGGGCTACAGCGAGGACGGCT
 TGGAGGAGCTGTCCCGGCACAGTGTGAGCGAGGCTGACAGGCTTCTCTCAGCTCGTTCAGTGTGGACTT
 CAGGCCTTTGGAGTCAAGGGGCGAGGAGAATCAATGAGTACTTCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224949 representing NM_015613
 Red=Cloning site Green=Tags(s)

MRVALGMLWLLALAWPPQARGFCPSQCSCSLHIMGDGSKARTVVCNDPDMTLPASIPPDTSRLRLERTA
 IRRVPGAEFRPLGRLEQLWLPYNALSELNALMLRGLRRLRELRLPGNRLAAFPAALRDAPKLRLLDLQA
 NRLSAVPAEAARFLENLTFDLSSNQLMRLPQELIVSWAHLETGIFPPGHHPRRVLGLQDNPWACDRLY
 DLVHLLDGWAPNLAFIETELRCASPRSLAGVAFSQLELRKCGPELHPGVASIRSLGATALLRCGATGV
 PGPEMSWRRANRPLNGTVHQEVSDGTSWTLGLPAVSHLDSGDYICQAKNFLGASETVISLIVTEPPT
 STEHSGSPGALWARTGGGGEAAAYNNKLVARHVPQIPKPAVLATGPSVPSTKEELTLEHFQMDALGELSD
 GRAGPSEARMVRSYKVVGDYHSVSLVWKAPQAKNTTAFSVLYAVFGQHSMRRVIVQPGKTRVTITGLLP
 KTKYVACVCVQGLVPRKEQCIVFSTNEVVDAENTQQLINVVVISVAIIVALPLTLVCCSALQKRCRCKF
 NKDSTEATVTYVNLERLGYSEDGLEELSRHSVSEADRLLSARSSVDFQAFGVKGGRRINEYFC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_015613

ORF Size: 1869 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:

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_015613.1](#), [NP_056428.1](#)

RefSeq Size: 2100 bp

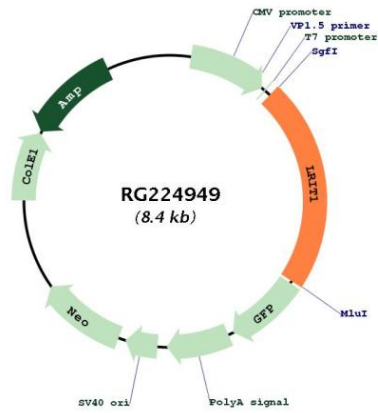
RefSeq ORF: 1872 bp

Locus ID: 26103

UniProt ID: [Q9P2V4](#)

Cytogenetics: 10q23.1
 Protein Families: Transmembrane
 Gene Summary: Possible role in phototransduction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG224949