

Product datasheet for **RG205596**

LRRC34 (NM_153353) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LRRC34
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205596 representing NM_153353
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGGGGAGCTCCCGGGAGGCCGCCGTCGCGCGGCCAGGTCCCGGCTTGGCCTCCACTCAGGCCAGTA
CTCCGGGCGCGCCCTGGCGTCCAGCGCAATCTCCAGAATCTGGTCTCCAGAAACATTATTCTAATCT
GTGTATGGAAAAATCCAGAAAATTAATCCTTTTATATTGCATATACTCCAAGAAGTGGATGAAGAAATT
AAAAAGGGGCTAGCAGCAGGAATCACATTAACATTGCTGGTAACAATCGCTTAGTGCCAGTAGAAAGAG
TTACAGGTGAAGATTTTGGATTCTTCCAAAATTTAAAGAATTGTCTGTATATTAATGGTTGGATGT
TGGATATAACCTTCTATGTGATGTTGGTGCATACTATGCTGCGAACTGCTTCAGAAACAACTTAATCTC
ATTTACTTAAACCTCATGTTTAATGATATTGGGCCCGAAGGTGGAGAATTGATTGCTAAAGTGTACATA
AGAATCGGACTCTGAAATACCTAAGAATGACTGGAAACAAAATTGAAAATAAAGGTGGAATGTTTTTGC
TGCAATGCTGCAATTAATTCATCATTAGAGAAATTAGATCTGGGTGACTGTGATCTGGAAGAGTCTACA
GTCCATGTAGGCCGATGTTGAAAGAAAACTCACTGTCTTGTGCACTACACATGTGTAAGCATGATATAA
AAAACAGTGGTATACAACAGTTATGTGATGCACTGTATCTGAACAGTAGCCTGCGCTACCTTGATGTCAG
CTGCAACAAAATAACTCATGATGGAATGGTGTATTTGGCTGATGTACTGAAAAGCAACACTACCTGGAA
GTAATAGATCTTTCCTTAACAGAAATAGAAAATGCAGGCGCAAACTATCTCAGTGAAACTCTTACTTCAC
ACAACAGGAGTCTTAAAGCGTTGTCTAGTGTGCAACAACATAGAGGGAGAAGGACTTGTGCACTTTC
ACAATCAATGAAAACAAATCTCACTTCTCTCATATCTACATTTGGGGAACAAATTTGATGAGGCTACG
TGTATAACATATTGAGCTTAATTCAAATGGGTTGTCTAAAACCAGACAATACAGATGTGGAGCCATTTG
TGGTAGATGGACGTGTATCTTGCAAGTCTCCAATGGCCTTAAAAGCATTATTATTGGACATCAAC
TTATGGAGAATCTTATGACCACTCATTAATGCAGTTTGTCTTGTTCAGTAGGTCAACAGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG205596 representing NM_153353
Red=Cloning site Green=Tags(s)

MGSSREAARAPARSPAWASTQASTPGAALAVQRESPESGLQKHYSNLCMEKSQKINPFILHILQEVDDEI
KKGLAAGITLNIAGNNRLVPVERTGEDFWILSKILKNCLYINGLDVGYNLLCDVGAYYAAKLLQKQLNL
IYLNLMFNDIGPEGGELIAKVLHKNRTLKYLRTGNKIENKGGMFFAAMLQINSLEKLDLGDCDLEEST
VHVGRMLKENHCLVALHMCKHDIKNSGIQQLCDALYNSSLRYLDVSCNKITHDGMVYLADVLKSNTTLE
VIDLSFNRIENAGANYLSETLTSHNRSLKALSVVSNNIEGGLVALSQSMKTNLTFSHIYIWGNKFDEAT
CITYSDLIQMGCLKPDNTDVEPFVVDGRVYLAEVSNGLKKHYWTSTYGESYDHSSNAGFALVPVGQQP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153353

ORF Size: 1257 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_153353.3](#)

RefSeq Size: 1449 bp

RefSeq ORF: 1299 bp

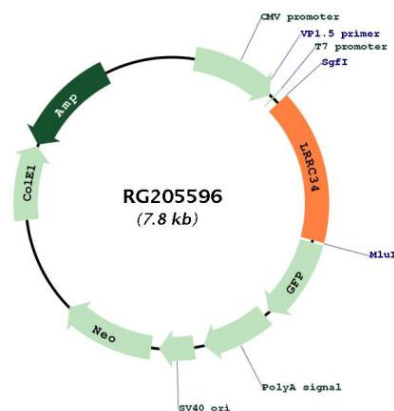
Locus ID: 151827

UniProt ID: [Q8IZ02](#)

Cytogenetics: 3q26.2

Gene Summary: Highly expressed in stem cells where it may be involved in regulation of pluripotency. In embryonic stem cells (ESCs), important for normal expression of the pluripotency regulators POU5F1/OCT4 and KLF4. Also important for expression of the ectodermal marker gene NES and the endodermal marker gene GATA4. Promotes stem cell proliferation in vitro. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205596