

Product datasheet for **RC209751**

LANCL2 (NM_018697) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	LANCL2
Synonyms:	GPR69B; TASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC209751 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGGCGAGACCATGTCAAAGAGGCTGAAGCTCCACCTGGGAGGGGAGGCAGAAATGGAGGAACGGGCGT
 TCGTCAACCCCTTCCCGACTACGAGGCCGCCCGGGGCGCTGCTCGCCTCCGGAGCGGCCGAAGAGAC
 AGGCTGTGTTCTGCCCCGGCCACCCGGATGAGCCCGGCTCCCTTTTCATCAGGACGGGAAGATCATT
 CATAATTTATAAGACGGATCCAGACAAAATTAAGATCTTCTGCAGCAATGGAAGAAGGCTGAAGA
 CAGCTGATCCCATGACTGCTCTGCTTATACTGGCTGGACAGGCATAGCCCTTTTGTACCTGCAGTTGTA
 CCGGGTCACATGTGACCAAACCTACCTGCTCCGATCCCTGGATTACGTAAAAAGAACACTTCGGAATCTG
 AATGGCCGAGGGTCACCTTCTCTGTGGGGATGCTGGCCCCCTGGCTGTTGGAGCTGTGATTTATCACA
 AACTCAGAAGTGACTGTGAGTCCAGGAATGTGTCAAAAACCTTTGCAGCTCCAGAGATCGTTGTCTG
 CCAAGAATCAGACCTTCTGATGAGCTGCTTTATGGACGGGCAGGTTATCTGTATGCCTTACTGTACCTG
 AACACAGAGATAGGTCCAGGCACCGTGTGTGAGTCAGCTATTAAGAGGTAGTCAATGCTATTATTGAAT
 CGGGTAAGACTTTGTCAAGGGAAGAAAGAAAAACGGAGCGCTGCCCGCTGTTGTACCAAGTGGCACCGGAA
 GCAGTACGTTGGAGCAGCCCATGGCATGGCTGGAATTTACTATATGTTAATGCAGCCGCAGCAAAAGTG
 GACCAAGAAACCTTGACAGAAATGGTGAAACCCAGTATTGATTATGTGCCACAAAAAATTCGATCTG
 GGAATTACCCATCATCATTAAAGCAATGAAACAGACCGGCTGGTGCAGTGGTGCCACGGCGCCCCGGGGT
 CATCCACATGCTCATGACGGCGTACAAGGCTTTAAGGAGGAGAAGTACTTGAAGAGGCCATGGAGTGT
 AGCGATGTGATTTGGCAGCGAGGTTTGTGCGGAAGGGCTACGGGATATGCCATGGGACTGCTGGCAACG
 GCTATTCCTTCTGTCCCTTTACCGTCTCAGCAGGATAAGAAGTACCTTACCGAGCTTGAAGTTTGC
 AGAGTGGTGTCTAGATTACGGAGCACACGGGTGCCGCATTCTGACAGACCCCTATTGCTCTTTGAAGGC
 ATGGCTGGCGCTATTCACTTTCTCTGATGTCCTGGGACCAGAGACATCACGGTTTCCAGCATTTGAAC
 TTGACTCTTCAAGAGGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209751 protein sequence
 Red=Cloning site Green=Tags(s)

MGETMSKRLKLHLGGEAEEMEERAFVNPFPDYEAAGALLASGAAEETGCVRPATPDEPLPFHQDGKII
 HNFIRRIQTKIKDLLQQMEEGLKTADPHDCSAYTGTGIALLYLQLYRVTCQTYLLRSLDYVKRTLRLN
 NGRRVTFLCGDAGPLAVGAVIYHKLRSDCESQECVTLLQLQSVVCQESDLPDELLYGRAGYLYALLY
 NTEIGPGTVCESAIKEVNNAIESGKTLREERKTERCPLLYQWHRKQYVGAAGHMAGIYYMLMQPAKV
 DQETLTEMVKPSIDYVRHKKFRSGNYPSLSNETDRLVHWCHGAPGVIHMLMQAYKVFKEEKYLKEAMEC
 SDVIWQRGLLRKGYGICHGTAGNGYSFLSLYRLTQDKKYLIRACKFAEWCLDYGAHGCRIPDRPYSLFEG
 MAGAIHFLSDVLGPETSRFPFELDSSKRD

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mk6092_e02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018697

ORF Size: 1350 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_018697.3](#), [NP_061167.1](#)

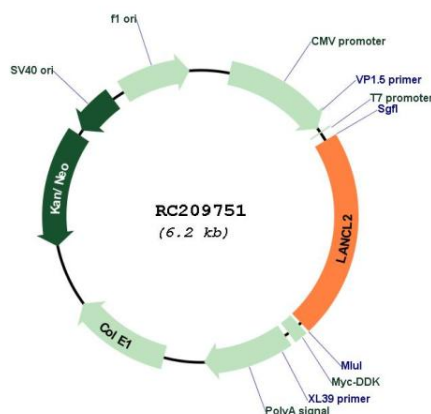
RefSeq Size: 4353 bp

RefSeq ORF: 1353 bp

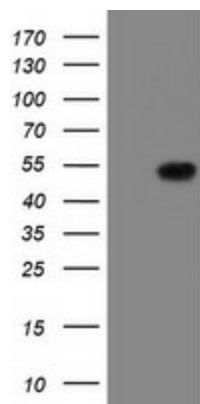
Locus ID: 55915

UniProt ID:	<u>Q9NS86</u>
Cytogenetics:	7p11.2
Domains:	LANC_like
Protein Families:	Druggable Genome
MW:	50.9 kDa
Gene Summary:	Necessary for abscisic acid (ABA) binding on the cell membrane and activation of the ABA signaling pathway in granulocytes.[UniProtKB/Swiss-Prot Function]

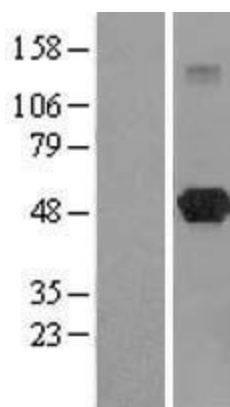
Product images:



Circular map for RC209751



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LANC2 (Cat# RC209751, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LANCL2(Cat# [TA800180]). Positive lysates [LY412892] (100ug) and [LC412892] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412892]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209751 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LANCL2 protein (Cat# [TP309751]). The protein was produced from HEK293T cells transfected with LANCL2 cDNA clone (Cat# RC209751) using MegaTran 2.0 (Cat# [TT210002]).