

Product datasheet for **RC228200**

TLCD2 (NM_001164407) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TLCD2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC228200 representing NM_001164407
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGCCACGGGGCTCCTGGTGGCCGGCGCCTCCTTCCTCGCGTTCCGGGGCTGCACTGGGGTTGC
GGCGGCTGCCACGCCGAATCGGCCGCTCGGACCGCTGGCAGTGGTGAACCTCTGCGTCTCCCTGGC
GCACAGCCTGCTCTCGGGGACCGGGCGCTGCTCGGCCTGTCACTGTACCCTCAGATGGCCGCCGACCCC
ATCCATGGCCACCGCGCTGGGCTCTGGTGTGGTGTGTCTGTGGGTTACTTCCTGGCAGACGGAG
CTGACCTGCTGTGAACAGACCTTGGGCAAGACCTGGGATCTTCTGTGCATCATTTGGTGGTGGTGGT
CTGCCCTCAGCACCGCTGTTCTGTCTGGCCACTACGTGGGCTTCTCCATGGTGTCTCTGCTCCTGGAACG
AACTCTGCCTGCTTGCACCTGCGGAAGCTGCTGTTGCTTTCTCGCCAGGCCCATCCCTGGCCTTCAGCG
TGACCAGCTGGGCTCCTTGGCCACCTTGGCCCTTCCGCTGGTCCCGCTGGGGTGGATGAGTCTGTG
GCTGTTCCGGCAGCACCAAGGTTCTCTTGTCTGGTCAACCTGGGTGGAATTGGGCTGGTCACTGTG
GGCATCATGAGCATCATATTGGGGATCCGTATTCTGGTCAATGATGTCTACAGTCTCGACCCCATCCAC
CCAGCCCTGGCCATGAGAAAACAGGGGACAGGACACGTCGTGACAATGGACCTGTACACAGCAACAG
TTCGACTCTCAGCTGAAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC228200 representing NM_001164407

Red=Cloning site Green=Tags(s)

MAPTGLLVAGASFLAFRGLHWGLRRLPTPESAARDRWQWNLCVSLAHSLLSGTGALLGLSLYPQMAADP
IHGHPRWALVLVAVSVGYFLADGADLLWNQTLGKTWDLCHHLVVVSCSLSTAVLSGHYVGFMSVSLLEL
NSACLHLRKLKLLSRQAPSLAFSVTSWASLATLALFRLVPLGWMSLWLFQHHQVPLALVTGGIGLVTV
GIMSIIILGIRILVNDVLQSRPHPPSPGHEKTRGTRTRDNGPVTNSSTLSLKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

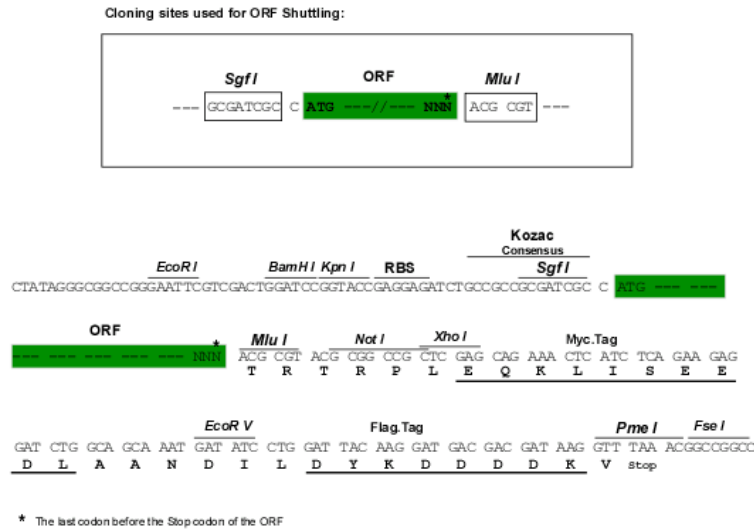
Chromatograms:

https://cdn.origene.com/chromatograms/mk8038_g12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001164407

ORF Size:

792 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:

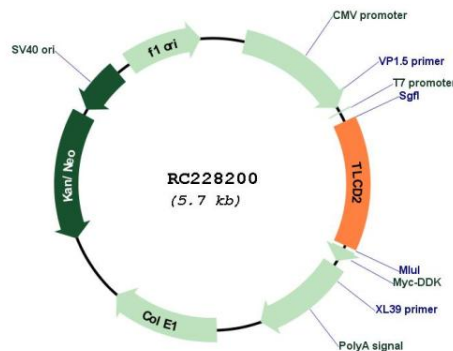
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

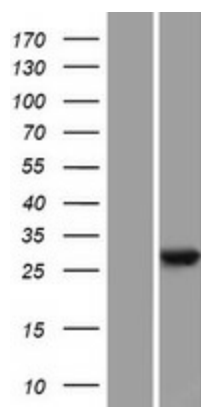
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001164407.2</u>
RefSeq ORF:	795 bp
Locus ID:	727910
UniProt ID:	<u>A6NGC4</u>
Cytogenetics:	17p13.3
MW:	28.6 kDa
Gene Summary:	Regulates the composition and fluidity of the plasma membrane (PubMed:30509349). Inhibits the incorporation of membrane-fluidizing phospholipids containing omega-3 long-chain polyunsaturated fatty acids (LCPUFA) and thereby promotes membrane rigidity (PubMed:30509349). Does not appear to have any effect on LCPUFA synthesis (PubMed:30509349).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228200



Western blot validation of overexpression lysate (Cat# [LY431228]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228200 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).