

Product datasheet for **RG204292**

TLCD1 (NM_138463) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TLCD1 (NM_138463) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TLCD1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204292 representing NM_138463
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGGACTGCTGCACCCCGCCCTGCCGCTGCTCCTGGGCGCCACGCTGACCTTCGGGCGCTCCGGC
 GCGCGCTCTGTCGCTGCCCTACCCGTGCACGTGCGCGCCGACCCCTGCGCACCTGGCGCTGGACAA
 CCTGCTCGTCTCCTTCGCTCACTCCATTGTGTCGGGGATCTGGGCACTGCTGTGTATGGCAGACTCCT
 GACATGTTAGTGGAGATTGAGACGGCGTGGTCACTTTCTGGCTATTTGCTCGTTTGCTTCTCTGCGGGT
 ATTTCAACGATACGGTGGACATCGTGGCTAGCGGACAGACGCGAGCCTCTTGGAATACCTTGTCCTTA
 TCACGTATGGCCATGGGTGCCTTCTTCTCCGGCATCTTTGGAGCAGCTTTGTCGGTGGGGGTGTCTTA
 ACACTACTGGTGGAGTCAGCAACATCTTCTCACCATTGCGATGATGATGAAAATCAGTAATGCCCAGG
 ATCATCTCCTCTACCGGTTAACAAGTATGTGAACCTGGTCACTTTCTCTTCCGCCTGGCCCTCA
 GGCCTACCTACCCATTCTTCTTGCCTTATGTGAACAGAGGACCTGGGCACCTTCTGCTGGGTATC
 CTGCTCATGCTGGACGTGATGATCATAATCTACTTTCCCGCCTCCTCCGCTCTGACTTCTGCCCTGAGC
 ATGTCCCAAGAAGCAACACAAAGACAAGTTCTTGACTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204292 representing NM_138463
 Red=Cloning site Green=Tags(s)

MPRLHPALPLLLGATLTFRALRRALCRLPLPVHVRADPLRTWRWHNLLVSFAHSIVSGIWALLCVWQTP
 DMLVEIETAWSLSGYLLVCFSAQYFIHDTVIVASGQTRASWEYLVHHVMAMGAFFSGIFWSSFVGGVL
 TLLVEVSNIFLTIRMMKISNAQDHLRYVKNYVNLVYFLFRLAPQAYLTHFFLRYVNQRTLGTFLGI
 LLMLDVMIIYFSRLLRSDFCPEHVPKQHKDKFLTE

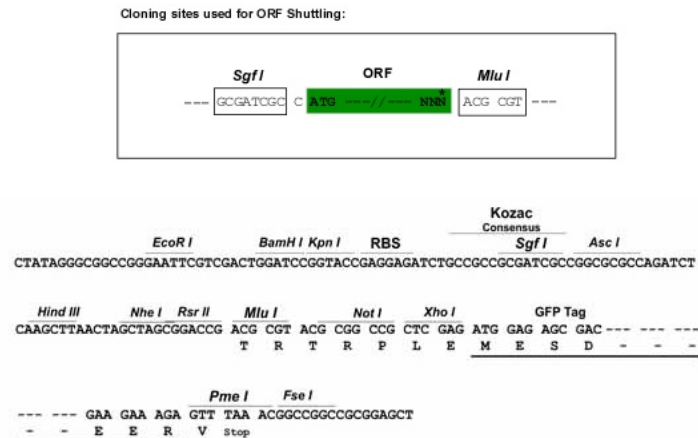
TRTRPLE - GFP Tag - V



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138463

ORF Size: 741 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.

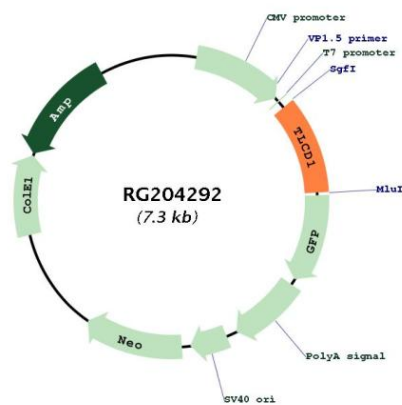
RefSeq: [NM_138463.4](#)

RefSeq Size: 1098 bp

RefSeq ORF: 744 bp

Locus ID:	116238
UniProt ID:	Q96CP7
Cytogenetics:	17q11.2
Protein Families:	Transmembrane
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 RG204292