

Product datasheet for **SC112017**

TLCD3A (NM_024792) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLCD3A (NM_024792) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLCD3A
Synonyms:	CT120; FAM57A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024792, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCTGACGCTGGCCGGGGCGCGCTCTTCTTCCCGGGGCTCTTCGCGCTCTGCACCTGGGCGCTGC
GCCGCTCCAGCCGGATGGAGCCGACCGACTGCGTGATGATCAGCACCAGGCTGGTTTCCTCGGTGCA
CGCCGTGCTGGCCACCGGCTCGGGGATCGTCATCATTGCTCCTGCGACGACGTGATCACCGGCAGGCAC
TGGCTTGCCCGGAATATGTGTGGTTTCTGATTCCATACATGATCTATGACTCGTACGCCATGTACCTCT
GTGAATGGTGCCGAACCAGAGACCAGAACCGTGCGCCCTCCCTCACTCTTCGAAACTTCCTAAGTCGAAA
CCGCCTCATGATCACACATCATGCGGTCACTCTTTGTCCTTGTGCCAGTGCACAGAGGCTCCGGGGA
GACCTTGGGGACTCTTTGTCGGCTGCATCTTCACGGCAGAACTGAGCACTCCGTTTGTGTCGCTGGGCA
GGGTTCTGATTACGCTAAAGCAGCAGCACACCCTTCTGTACAAGGTGAATGGAATCCTCACGCTGGCCAC
CTTCTTTCTGCCGGATCCTTCTTCCCTTCACTGACTGGTCTATGGCCGCCAGCAGGGACTAAGC
CTGCTCCAAGTACCCTTCAGCATCCCATCTACTGCAACGTGGCCAATGCCTTCTCGTAGCTCCTCAGA
TCTACTGGTTCTGTCTGTGTCAGGAAGGCAGTCCGGCTCTTTGACACTCCCCAAGCAAAAAGGATGG
CTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024792 unedited
 GATTTTGTAAACGACTCACTTATAGGGCGGCCGGAATCGGCACGAGGCCTCGTGCCGA
 ATTCGGCAGGAGGGCGCGGCCGGGGCGCGCCGAGCCGAACCCAGCCACGCGGGCGC
 CAGCGAGGCGGCCGACCCGAGCCCCGATGCTGCTGACGCTGGCCGGGGGCGCGCTCTT
 CTTCCCGGGGCTCTTCGCGCTCTGCACCTGGGCGCTGCGCCGCTCCCAGCCGGATGGAG
 CCGCACCAGACTGCGTGATGATCAGCACCAGGCTGGTTTCTCGGTGCACGCCGTGCTGGC
 CACCGGCTCGGGGATCGTCATCATTTCGCTCCTGCGACGACGTGATCACCCGACGGCACTG
 GCTTGCCCGGGAATATGTGTGGTTTCTGATTCCATACATGATCTATGACTCGTACGCCAT
 GTACCTCTGTGAATGGTGCCGAACCAGAGACCAGAACCGTGCGCCCTCCCTCACTCTTCG
 AAACCTTCTAAGTCGAAACCGCCTCATGATCACACATCATGCGGTATTCTCTTTGTCTCT
 TGTGCCAGTCGCACAGAGGCTCCCGGGGAGACCTTGGGGACTTCTTTGTCGGCTGCATCT
 TACGGCAGAACTGAGCACTCCGTTTGGGCGCTGGCCAAGGTTTCTGATTAGCTAAGGCA
 GCAGCACACCCTTCTGTACAGGTGGAAGGGATTCTTACGCTGGCCACCTTCTTTTCTGG
 CCGGATCTTCTCTTTCCCTTCATGTACCTGGCCCTAGGGCCGCCAGCAGGGACTAAGCC
 TTGGTCAAGTACCCTTAACATCCCATTCTACTGGAACGTGGGCCAAGGCTTCCCGGAGC
 TCCAATCCAACGGAGTCGGGGGCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024792 unedited
 TGTGCATTTATACGTAAGGTGACTTTTTAAGTAACACTGATAGTTAAAAAAGACAA
 TAAAAAATAGCATTTTGTTTTTAAATGGCACCATTAAAGACTCAACAGTCAAATGA
 GACAAATCAGTCTTTAGACGTTACAGACAATTGAAAGGCACCTTAAAAATCCACTTTT
 TAAACTACCACTTGAGAACACATGGTAGCACAGTCTTAAATTCATCTATTTGATCGGGA
 ATGATGAATGAGTGTGGCACCAGAAAATCCTGCTTGAGAAGGGGGCGCATGTGTGGT
 CCACGGGACAGCCACTGGCCAGGCTAGCTGCCGCCTCACTCCGACGCTTCTGTGGCTAA
 ATGGCAGGACGGACACAGGAATGGGCTTTGGACCACAAGCTCTGGCATATCGGGAGGC
 AAAGCACTCAAGTACTCTGCAGTCTAGATGACACATTTTATGTTTGGAGGACAGAAGTA
 GGTTCACATACATGAAAAGGACAGTGTACAGTGGGGTTACCCAGTAAACAGCTACC
 AAAGCCATCATTTACGCTTCCCTGTAGTTTTATGAGCTCGCCCTCTGCATGTGGATG
 GGGAAAGCCGGGCATGAAGGGGTGTGTGAAAAGATCAGCCTCTGTGACTGACTGCAGTA
 AGCTCACAAAGTTTGTCACTGTGAGACTTATCAAGTCAAGCTGCATAGGTTGTGCTGATCT
 CTTGGCCACACTACCTACTCATGGTTCCATCCAATGCCTNCTGCCTGCCCCACCCCAT
 GCCCACCAGTGAGACTTCTGATTGGAAGTCTATAGACATAAGAATTCAACTCTGACCCAT
 GGATGATAGGATGATGCATATGATCAATGGNNTATCTAGTAACGATCATTTACTACCTA
 CCCACATGATTGTNCCATGCCATGTCACATGACGACATACTTNCAGAACAAGTATTCCTT
 GCTCTGCGGCCAGTGCACGGTCTGTCTTGATGT

Restriction Sites:

NotI-NotI

ACCN:

NM_024792

Insert Size:

2500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_024792.1](#), [NP_079068.1](#)

RefSeq Size: 2096 bp

RefSeq ORF: 774 bp

Locus ID: 79850

UniProt ID: [Q8TBR7](#)

Cytogenetics: 17p13.3

Domains: TLC

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is a membrane-associated protein that promotes lung carcinogenesis. The encoded protein may be involved in amino acid transport and glutathione metabolism since it can interact with a solute carrier family member (SLC3A2) and an isoform of gamma-glutamyltranspeptidase-like 3. An alternatively spliced variant encoding a protein that lacks a 32 aa internal segment showed the opposite effect, inhibiting lung cancer cell growth. Knockdown of this gene also inhibited lung carcinogenesis and tumor cell growth. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (1, also known as CT120A) represents the longest transcript and encodes the longest isoform (1).