

Product datasheet for **SC114962**

Tropomodulin 2 (TMOD2) (NM_014548) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tropomodulin 2 (TMOD2) (NM_014548) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tropomodulin 2
Synonyms:	N-TMOD; NTMOD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014548, the custom clone sequence may differ by one or more nucleotides

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ATGGCACTCCCCTTTCAAAAAGAGCTGGAGAAATACAAGAACATTGATGAAGATGAGCTTCTTGGCAAAC
TCTCAGAAGAGGAACTGAAACAGTTGGAAAATGTTCTAGATGACCTAGATCCTGAGAGTGCCATGCTGCC
AGCTGGATTTTCGACAGAAAGACCAGACACAGAAGGCAGCCACCGGCCCTTTGACCGCGAGCACCTCCTC
ATGTACCTGGAGAAGGAGGCTTTGGAACAGAAAGACAGAGAGGACTTTGTGCCCTTCACTGGAGAAAAGA
AAGGGAGAGTCTTTATCCCTAAAGAAAAGCCTATAGAAACTCGTAAAGAAGAAAAAGTGACCCTTGACCC
AGAAGTGAAGAAGCTTTGGCCAGTGCCTCTGACACCGAACTCTATGATCTTGCAGCTGTCCTTGGAGTA
CACAATTTGCTCAACAATCCAAAGTTCGATGAAGAAACAGCCAACAATAAAGGTGGCAAAGGACCTGTCA
GAAATGTTGTCAAAGGTGAAAAAGTAAAGCCAGTATTTGAGGAACCAACAAATCCACAAATGTGGAAT
AAGCCTGCAGCAGATGAAAGCCAATGATCCTAGCTTGCAAGAAGTCAACCTCAACAACATTAAGAACATT
CCAATTCACCCCTGAGGGAATTTGCAAAGGCTCTGGAGACCAACACTCACGTGAAGAAGTTCAGCCTGG
CCGCAACTCGCAGCAATGACCCTGTGGCCATTGCTTTTGCAGACATGCTGAAAGTAAACAAGACCTTGAC
AAGTCTAAACATAGAATCCAATTTTACTGGAAGTGGGATCCTGGCCCTGGTAGAGGCACTGAAAGAA
AATGACACCTTGACAGAAATCAAGATTGACAACAGAGGCAGCAGTTGGGAACAGCTGTAGAGATGGAAA
TTGCCAGATGCTGGAGGAGAATCAAGGATCCTCAAGTTTGGATACCAGTTTACCAAGCAAGGGCCACG
AACAAGGTGGCAGCTGCCATCACAAGAATAATGACCTGGTTTCGTAAGAAGAGAGTTGAAGCAGACCGA
AGGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014548 unedited CGCGAATTCGGCACGAGGGCCAACACAGCCGGCTCCGGGATGAGCGCACGGACGGTATTC TGAAGTCTCAGGAACTGGACATTTAAATGTGCATGGCCCATGAGAAAGGCTTATAAGA AGCCATGGCACTCCCCTTTCAAAAAGAGCTGGAGAAATACAAGAACATTGATGAAGATGA GCTTCTTGGCAAACCTCTCAGAAGAGGGGCTGAAACAGTTGGAAAATGTTCTAGATGACCT AGATCCTGAGAGTGCCATGCTGCCAGCTGGATTTGACAGAAAAGACCAGACACAGAAGGC AGCCACCGGCCCTTTGACCCGAGCACCTCCTCATGTACTGGAGAAGGAGGCTTTGGA ACAGAAAAGACAGAGAGGACTTTGTGCCCTTCACTGGAGAAAAGAAAGGGAGAGTCTTTAT CCCTAAAGAAAAGCCTATAGAAAACGTAAGAAGAAAAAGTGACCCCTTGACCCAGAAC GGAAGAAGCTTTGGCCAGTGCCTCTGACACCGAACTCTATGATCTGCAGCTGTCCTTGG AGTACACAATTTGCTCAACAATCCAAAGTTCGATGAAGAAAACAGCCAACAATAAAGGTGG CAAAGGACCTGTAGAAATGTTGTCAAAGGTGAAAAAGTAAAGCCAGTATTTGAGGAACC ACCAAATCCCACAAATGTGGAATAAGCCTGCAGCAGATGAAAGCCAATGATCCTAGCTT GCAAGAAGTCAACCTCAACN
Restriction Sites:	NotI-NotI
ACCN:	NM_014548
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:	<ol style="list-style-type: none">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:	<u>NM_014548.2</u> , <u>NP_055363.1</u>
RefSeq Size:	2945 bp
RefSeq ORF:	1056 bp
Locus ID:	29767
UniProt ID:	<u>Q9NZR1</u>
Cytogenetics:	15q21.2
Domains:	Tropomodulin

Gene Summary:

This gene encodes a neuronal-specific member of the tropomodulin family of actin-regulatory proteins. The encoded protein caps the pointed end of actin filaments preventing both elongation and depolymerization. The capping activity of this protein is dependent on its association with tropomyosin. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Dec 2008]

Transcript Variant: This variant (1) encodes the longer isoform (a).