

## Product datasheet for **SC334808**

### Tropomyosin 3 (TPM3) (NM\_001278189) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tropomyosin 3 (TPM3) (NM_001278189) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tropomyosin 3
Synonyms:	CAPM1; CFTD; HEL-189; HEL-S-82p; hscp30; NEM1; OK/SW-cl.5; TM-5; TM3; TM5; TM30; TM30nm; TPM3nu; TPMsk3; TRK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001278189, the custom clone sequence may differ by one or more nucleotides

ATGGCTGGGATCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATG  
 CAGAGGAGCGAGCTGAGCGCCTCCAGCGAGAAGTTGAGGGAGAAAAGCGGGCCCGGAACAGGCTGAGGC  
 TGAGGTGGCCTCCTTGAACCGTAGGATCCAGCTGGTTGAAGAAGAGCTGGACCGTGCTCAGGAGCGCCTG  
 GCCACTGCCCTGCAAAAGCTGGAAGAAGCTGAAAAAGCTGCTGATGAGAGTGAGAGAGGTATGAAGGTTA  
 TTGAAAACCGGCCTTAAAGATGAAGAAAAGATGGAAGTCCAGGAAATCCAAGTCAAAGAAGCTAAGCA  
 CATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCATTGAAGGAGACTTG  
 GAACGCACAGAGGAACGAGCTGAGCTGGCAGAGTCCCGTTGCCGAGAGATGGATGAGCAGATTAGACTGA  
 TGGACCAGAACCTGAAGTGTCTGAGTGTGCTGAAGAAAAGTACTCTCAAAAAGAAGATAAATATGAGGA  
 AGAAATCAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTCTGAGAGATCGGTA  
 GCCAAGCTGGAAGACAATTGATGACCTGGAAGATGAGCTCTATGCCAGAACTGAAGTACAAGGCCA  
 TTAGCGAGGAGCTGGACCACGCCCTCAATGACATGACCTCTATA**TAA**

Restriction Sites:	SgfI-MluI
ACCN:	NM_001278189
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).


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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001278189.1, NP_001265118.1</u>
<b>RefSeq Size:</b>	3291 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	7170
<b>UniProt ID:</b>	<u>P06753</u>
<b>Cytogenetics:</b>	1q21.3
<b>Protein Pathways:</b>	Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Pathways in cancer, Thyroid cancer
<b>Gene Summary:</b>	<p>This gene encodes a member of the tropomyosin family of actin-binding proteins. Tropomyosins are dimers of coiled-coil proteins that provide stability to actin filaments and regulate access of other actin-binding proteins. Mutations in this gene result in autosomal dominant nemaline myopathy and other muscle disorders. This locus is involved in translocations with other loci, including anaplastic lymphoma receptor tyrosine kinase (ALK) and neurotrophic tyrosine kinase receptor type 1 (NTRK1), which result in the formation of fusion proteins that act as oncogenes. There are numerous pseudogenes for this gene on different chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]</p> <p>Transcript Variant: This variant (Tpm3.5, also known as variant 7) contains an alternate exon in the 3' coding region, which results in a frameshift, compared to variant Tpm3.1. The encoded isoform (Tpm3.5cy, also known as isoform 7 or Tm5NM5) is the same length as isoform Tpm3.1cy but has a distinct C-terminus. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>