

Product datasheet for **SC100749**

C22orf25 (TANGO2) (NM_152906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C22orf25 (TANGO2) (NM_152906) Human Untagged Clone
Tag:	Tag Free
Symbol:	TANGO2
Synonyms:	C22orf25; MECRCN
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152906, the custom clone sequence may differ by one or more nucleotides

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ATGTGCATCATCTTCTTTAAGTTTGATCCTCGCCCTGTTTCCAAAACGCGTACAGGCTCATCTTGGCAG  
CCAACAGGGATGAATTCTACAGCCGACCCTCCAAGTTAGCTGACTTCTGGGGGAACAACAACGAGATCCT  
CAGTGGGCTGGACATGGAGGAAGGCAAGGAAGGAGGCACATGGCTGGGCATCAGCACACGTGGCAAGCTG  
GCAGCACTACCAACTACCTGCAGCCGAGCTGGACTGGCAGGCCGAGGGCGAGGTGAAGTTGTCACCC  
ACTTTCTGACCACTGACGTGGACAGCTTGTCTACCTGAAGAAGTCTCTATGGAGGGCCATCTGTACAA  
TGGCTTCAACCTCATAGCAGCCGACCTGAGCACAGCAAAGGGAGACGTCATTTGCTACTATGGGAACCGA  
GGGGAGCCTGATCCTATCGTTTTGACGCCAGGCACCTACGGGCTGAGCAACGCGCTGCTGGAGACTCCCT  
GGAGGAAGCTGTGCTTTGGGAAGCAGCTCTTCTGGAGGCTGTGGAACGGAGCCAGGCGCTGCCAAGGA  
TGTGCTCATCGCCAGCCTCCTGGATGTGCTCAACAATGAAGAGGCGCAGCTGCCAGACCCGGCCATCGAG  
GACCAGGGTGGGAGTACGTGCAGCCATGCTGAGCAAGTACGCGGCTGTGTGCGTGCCTGCCCTGGCT  
ACGGCACCAGAACCAACTATCATCTGGTAGATGCGGACGGCCACGTGACCTTCACTGAGCGTAGCAT  
GATGGACAAGGACCTCTCCCACTGGGAGACCAGAACCTATGAGTTCACACTGCAGAGCTAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_152906 unedited AATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGCGGACGGCCACG TGACCTTCACTGAGCGTAGCATGATGGACAAGGACCTCTCCCACTGGGAGACCAGAACCT ATGAGTTCACACTGCAGAGCTAACCCACCTCTGGGCCTGGCCAGTGGGCTCCTGGGGGG CCCTGCCTTGAGGGGCACTGTGGACAGGAAACCTTCCTTTGCCATACTGCATTGCACTGC CCGTGGCTTGCCAGCATCCCCGGATCAGGGCCCTGTGGTTTGGGTGTTACCCATCTGT GTCCCCATGCCAGTTCAGGGTCTGCCTTTATGCCAGTGAGGAGCAGCAGAGTCTGATAC TAGGTCTAGGACCGGCCGAGGTATACCATGAACATGTGGATACACCTGAGCCCACTCTTG CACATGTACACAGGCACTCACATGGCACACACATACACTCTGCCTGTGCACAAGCACAC ACATGCAATGCATATACATGGACACCGACACAGGCACATGTACATGCACAGGTGTGCTAC ACATGTGCACACATGCACAGTTGCACAGACACACACACAGGTGCACACACACGATGCC GAACAAGGCAGAAGGGCGACTCTCACCTCTCATGTGCTTCTAGCCAGTAAGGTCTTTGTT TCTGGTCCAACGACAGGAGTAGGCTTGTATTTAAAAGCGGCCCTCTCTCTGTGGCCA CAGACACCAGGCGCCTTGAATTTTGAACAAGCAGACCCTGCTCCGCAAAGGAAAACACC CCATTTGGAATTGCGCACCGAGAAGACCTGAAAAAACCCCTCTCTCTTTTTTTTTTTTT TTTGAAACGGGGTTTGGTTTCGTACCCAGCGGAGTGAAGGGCGCCATTCTCGGTTGCTG GACCCCGCTCCCGGTAGAGGACGTTCTCTCCCCCTCCGATGGTGGGTATGCAAC CGGTCCACCTCCCATTCTTTTTGGGTCTAAAAAACCGTGTCTCATTGT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_152906
Insert Size:	3000 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_152906.2 , NP_690870.2

RefSeq Size: 2291 bp

RefSeq ORF: 831 bp

Locus ID: 128989

UniProt ID: [Q6ICL3](#)

Cytogenetics: 22q11.21

Gene Summary: This gene belongs to the transport and Golgi organization family, whose members are predicted to play roles in secretory protein loading in the endoplasmic reticulum. Depletion of this gene in *Drosophila* S2 cells causes fusion of the Golgi with the ER. In mouse tissue culture cells, this protein co-localizes with a mitochondrially targeted mCherry protein and displays very low levels of co-localization with Golgi and peroxisomes. Allelic variants of this gene are associated with rhabdomyolysis, metabolic crises with encephalopathy, and cardiac arrhythmia. [provided by RefSeq, Apr 2016]