

## Product datasheet for RC237412

### C22orf25 (TANGO2) (NM\_001283129) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C22orf25 (TANGO2) (NM_001283129) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TANGO2
Synonyms:	C22orf25; MECRCN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237412 representing NM_001283129 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCCACCAAGCTGCTGTGTGCAGGAAGGTGTGTGGCCAGGACGGGGCTGCACAGGCCTGGCACTGCC  
CTCCAGGACAGGGTCACTCAGTGTGGGATGCTGTCAGAATGCCTCTCGGGCGGGGACTCCAGTCAATGT  
ACAAAGACGTGAAGACTCAGCCACAGAAGGCAGCCACAGGCTCATCTTGGCAGCCAACAGGGATGAATTC  
TACAGCCGACCTCCAAGTTAGCTGACTTCTGGGGAAACAACAACGAGATCCTCAGTGGGCTGGACATGG  
AGGAAGGCAAGGAAGGAGGCACATGGCTGGGCATCAGCACACGTGGCAAGCTGGCAGCACTACCAACTA  
CCTGCAGCCGACGCTGGACTGGCAGGCCCGAGGGCGAGGTGAACTTGTCACCCACTTTCTGACCACTGAC  
GTGGACAGCTTGTCTACCTGAAGAAGGTCTCTATGGAGGGCCATCTGTACAATGGCTTCAACCTCATAG  
CAGCCGACCTGAGCACAGCAAAGGGAGACGTCAATTTGCTACTATGGGAACCGAGGGGAGCCTGATCCTAT  
CGTTTTGACGCCAGGCACCTACGGGCTGAGCAACGCGCTGCTGGAGACTCCCTGGAGGAAGCTGTGCTTT  
GGGAAGCAGCTCTTCTGGAGGCTGTGGAACGGAGCCAGGCGCTGCCAAGGATGTGCTCATCGCCAGCC  
TCCTGGATGTGCTCAACAATGAAGAGGCGCAGCTGCCAGACCCGGCCATCGAGGACCAGGGTGGGGAGTA  
CGTGCAGCCCATGCTGAGCAAGTACGCGGCTGTGTGCGTGCCTGCCCTGGCTACGGCACCAAGCAAC  
ACTATCATCCTGGTAGATGCGGACGGCCACGTGACCTTCACTGAGCGTAGCATGATGGACAAGGACCTCT  
CCCACTGGGAGACCAGAACCTATGAGTTCACACTGCAGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC237412 representing NM\_001283129  
 Red=Cloning site Green=Tags(s)

MPPKLLCAGRCVGDGAAQAWHCPPGQGHVSDAVRMPLGAGTPVNVQRREDSATEGSHRLILAANRDEF  
 YSRPSKLADFWGNNNEILSGLDMEEGKEGGTWLGI STRGKLAAL TNYLQPQLDWQARGRGLVTHFLTTD  
 VDSL SYLKKVSMEGHL YNGFNL IAADLSTAKGDVICYYGNRGE PDP I VL TPGTYGLSNALLETPWRKLCF  
 GKQLFLEAVERSQALPKDVL IASLLDLVNNEEAQLPDP AIEDQGG EYVQ PML SKYA AVCVRC PPGYGT RTN  
 T I I L V D A D G H V T F T E R S M M D K D L S H W E T R T Y E F T L Q S

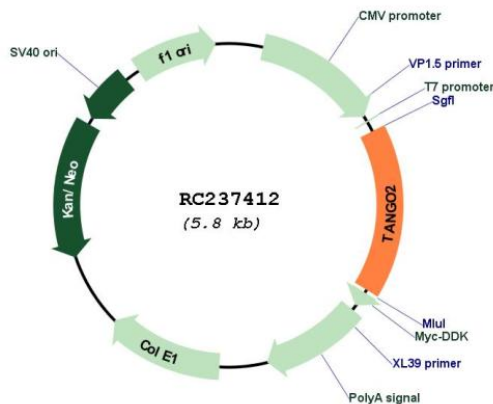
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001283129

**ORF Size:** 951 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001283129.2</a> , <a href="#">NP_001270058.1</a>
<b>RefSeq Size:</b>	2457 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	128989
<b>UniProt ID:</b>	<a href="#">Q6ICL3</a>
<b>Cytogenetics:</b>	22q11.21
<b>MW:</b>	35.4 kDa
<b>Gene Summary:</b>	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 <i>Drosophila</i> 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]