

## Product datasheet for **RC207236**

### **C22orf25 (TANGO2) (NM\_152906) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C22orf25 (TANGO2) (NM_152906) 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:	>RC207236 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGCATCATCTTCTTTAAGTTTGATCCTCGCCCTGTTCCAAAACCGGTACAGGCTCATCTTGGCAG  
CCAACAGGGATGAATTCTACAGCCGACCCTCAAGTTAGCTGACTTCTGGGGAAACAACAACGAGATCCT  
CAGTGGGCTGGACATGGAGGAAGCAAGGAAGGAGGCACATGGCTGGGCATCAGCACACGTGGCAAGCTG  
GCAGCACTCACCACCTACCTGCAGCCGAGCTGGACTGGCAGGCCGAGGGCGAGGTGAACCTTGTCACCC  
ACTTTCTGACCACTGACGTGGACAGCTTGTCTACCTGAAGAAGTCTCTATGGAGGGCCATCTGTACAA  
TGGCTTCAACCTCATAGCAGCCAACCTGAGCACAGCAAAGGGAGACGTCATTTGCTACTATGGGAACCGA  
GGGGAGCCTGATCCTATCGTTTTGACGCCAGGCACCTACGGGCTGAGCAACGCGCTGCTGGAGACTCCCT  
GGAGGAAGCTGTGCTTTGGGAAGCAGCTTCTCTGGAGGCTGTGGAACGGAGCCAGGCGCTGCCAAAGGA  
TGTGCTCATCGCCAGCCTCCTGGATGTGCTCAACAATAAAGAGGGCGAGCTGCCAGACCCGGCCATCGAG  
GACCAGGGTGGGAGTACGTGCAGCCATGCTGAGCAAGTACGCGGCTGTGTGCGTGCCTGCCCTGGCT  
ACGGCACCAAGAACCAACTATCATCCTGGTAGATGCGGACGGCCACGTGACCTTCACTGAGCGTAGCAT  
GATGGACAAGGACCTCTCCCACTGGGAGACCAGAACCTATGAGTTCACACTGCAGAGC

AC**CGGCCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
TTACAAGGATGACGACGATAAGGTTTAA



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**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_152906.3](#)

**RefSeq Size:** 2329 bp

**RefSeq ORF:** 831 bp

**Locus ID:** 128989

**UniProt ID:** [Q6ICL3](#)

**Cytogenetics:** 22q11.21

**MW:** 30.9 kDa

**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]