OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC236523

C22orf25 (TANGO2) (NM_001283199) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C22orf25 (TANGO2) (NM_001283199) 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:	>RC236523 representing NM_001283199 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGCATCATCTTCTTTAAGTTTGATCCTCGCCCTGTTTCCAAAAACGCGTACAGGCTCATCTTGGCAG CCAACAGGGATGAATTCTACAGCCGACCCTCCAAGTTAGCTGACTTCTGGGGGAACAACAACGAGATCCT CAGTGGGCTGGACATGGAGGAAGGCAAGGAAGGAGGCACATGGCTGGGCATCAGCACACGTGGCAAGCTG GCAGCACTCACCAACTACCTGCAGCCGCAGCTGGACTGGCAGGCCCGAGGGCGAGGTGAACTTGTCACCC ACTTTCTGACCACTGACGTGGACAGCTTGTCCTACCTGAAGAAGGTCTCTATGGAGGGCCATCTGTACAA TGGCTTCAACCTCATAGCAGCCGACCTGAGGCAGCTGCCAGACCCGGCCATCGAGGACCAGGGTGGGGAG TACGTGCAGCCCATGCTGAGCAAGTACGCGGCTGTGTGCGTGCGCTGCCCTGGCTACGGCACCAGAACCA ACACTATCATCCTGGTAGATGCGGACGGCCACGTGACCTTCACTGAGCGTAGCATGATGGACAAGGACCT CTCCCACTGGGAGACCAGAACCTATGAGTTCACACTGCAGAGC AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC236523 representing NM_001283199 Red=Cloning site Green=Tags(s) MCIIFFKFDPRPVSKNAYRLILAANRDEFYSRPSKLADFWGNNNEILSGLDMEEGKEGGTWLGISTRGKL AALTNYLQPQLDWQARGRGELVTHFLTTDVDSLSYLKKVSMEGHLYNGFNLIAADLRQLPDPAIEDQGGE YVQPMLSKYAAVCVRCPGYGTRTNTIILVDADGHVTFTERSMMDKDLSHWETRTYEFTLQS SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-RsrII

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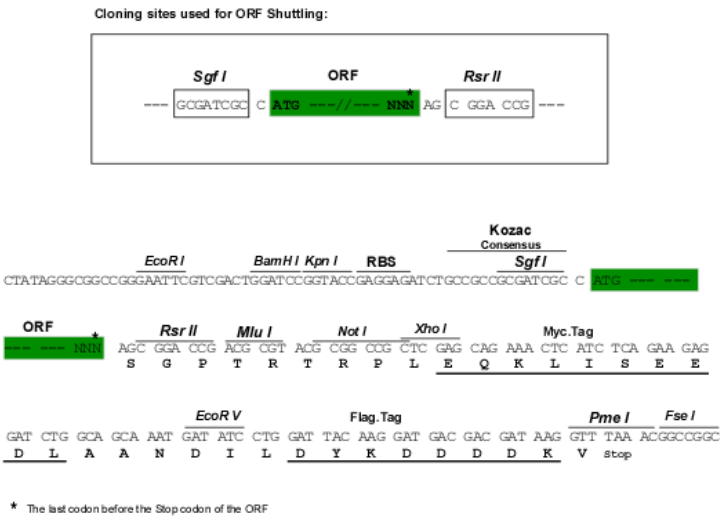
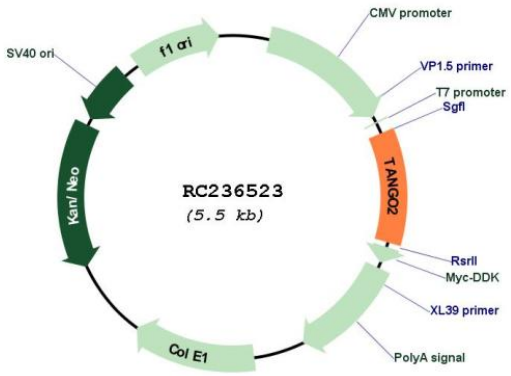
Cloning Scheme:



Plasmid Map:



ACCN:	NM_001283199
ORF Size:	603 bp
OTI Disclaimer:	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_001283199.2, NP_001270128.1

RefSeq Size: 2104 bp

RefSeq ORF: 606 bp

Locus ID: 128989

UniProt ID: Q6ICL3

Cytogenetics: 22q11.21

MW: 23.2 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]