

Product datasheet for **RC237098**

C22orf25 (TANGO2) (NM_001283116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C22orf25 (TANGO2) (NM_001283116) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C22orf25
Synonyms:	C22orf25; MECRCN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237098 representing NM_001283116 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCATCATCTTCTTTAAGTTTGATCCTCGCCCTGTTTCCAAAACGCGTACAGGCTCATCTTGGCAG
 CCAACAGGGATGAATTCTACAGCCGACCCTCCAAGTTAGCTGACTTCTGGGGGAACAACAACGAGATCCT
 CAGTGGGCTGGACATGGAGGAAGGCAAGGAAGGAGGCACATGGCTGGGCATCAGCACACGTGGCAAGCTG
 GCAGACTCACCAACTACCTGCAGCCGAGCTGGACTGGCAGGCCGAGGGCGAGGTGAAGTTGTACCC
 ACTTTCTGACCACTGACGTGGACAGCTTGTCTACCTGAAGAAGGTCTCTATGGAGGGCCATCTGTACAA
 TGGCTTCAACCTCATAGCAGCCGACCTGAGCACAGCAAAGGGAGACGTCAATTTGCTACTATGGGAACCGA
 GGGGAGCCTGATCCTATCGTTTTGACGCCAGGCACCTACGGGCTGAGCAACGCGCTGCTGGAGACTCCCT
 GGAGGAAGCTGTGCTTTGGGAAGCAGCTTCTCTGGAGGCTGTGGAACGGAGCCAGGCGCTGCCCAAGGA
 TGTGCTCATCGCCAGCCTCCTGGATGTGCTCAACAATGAAGAGGCGCAGCTGCCAGACCCGGCCATCGAG
 GACCAGGTGGGAGTACGTGCAGCCCATGCTGAGCAAGTACGCGGCTGTGTGCGTGCGCTGCCCTGGCT
 ACGGCACCAGAACCAACTATCATCTGGTAGATGCGGACGGCCACGTGACCTTCACTGAGCGTAGCAT
 GATGGACAAGGACCTCTCCCACTGGGAGACCAGAACCTATGAGTTCACACTGCAGAGC

AC**GGGCCGCT**CGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
 TTACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC237098 representing NM_001283116

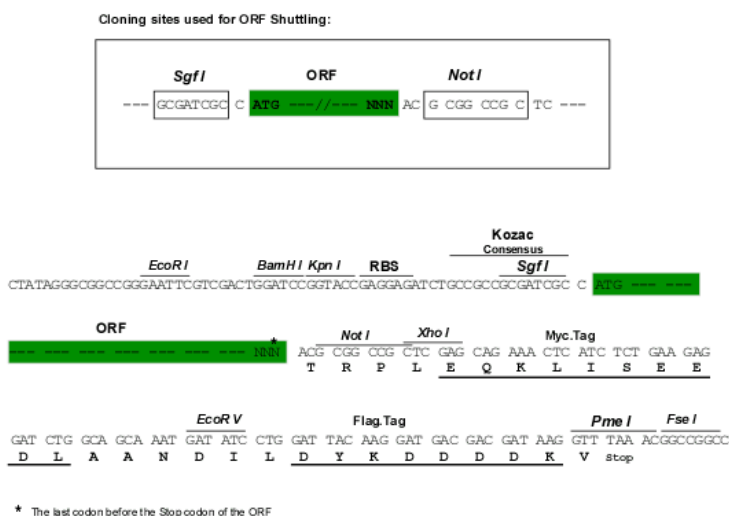
Red=Cloning site Green=Tags(s)

MCIIFFKFDPRPVSKNAYRLILAA NRDEFYSRPSKLADFWGNNNEILSGLDMEEGKEGGTWLGISTRGKL
AALTNYLQPQLDWQARGGELVTHFLT TDVDSL SYLKKVSMEGHLYNGFNLIAADLSTAKGDVICYYGNR
GEPDPIVLTPGTYGLSNALLETPWRKLCFGKQLFLEAVERSQUALPKDVLIASLLDVLNNEEAQLPDAIE
DOGGEYVOPMLSKYAAVCVRCPGYGTRNTIILVDADGHVTFTERSMDKDL SHWETRTRYEFTLOS

TRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-NotI

Cloning Scheme:



ACCN: NM 001283116

ORF Size: 828 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001283116.2](#)

RefSeq Size: 2217 bp

RefSeq ORF: 831 bp

Locus ID: 128989

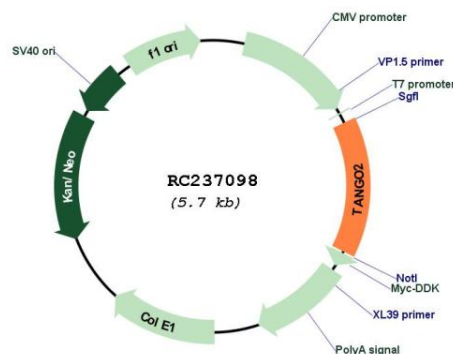
UniProt ID: [Q6ICL3](#)

Cytogenetics: 22q11.21

MW: 31.4 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]

Product images:



Circular map for RC237098