

Product datasheet for **RG200579**

TMP21 (TMED10) (NM_006827) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMP21 (TMED10) (NM_006827) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMP21
Synonyms:	p23; P24(DELTA); p24d1; S311125; S3111125; Tmp-21-l; TMP21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200579 representing NM_006827 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGGTTTGTCTGGCCACCAGCCCGCGCGGCCCTTTCCGTTAGCGTTGCTGCTTTTGTTCCTGC
TCGGCCCCAGATTGGTCCTTGCCATCTCCTTCCATCTGCCATTAACCTCGCAAGTGCCTCCGTGAGGA
GATTCACAAGGACCTGCTAGTGACTGGCGGTACGAGATCTCCGACCAGTCTGGGGCGCTGGCGGCTG
CGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCAAAGAGGATGCAACCAAGGGGA
AATTTGCCTTTACCACTGAAGATTATGACATGTTGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGAT
ACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGTGGAGGCGAAAAATTACGAAGAGATTGCAAAA
GTTGAGAAGCTCAAACATTAGAGGTAGAGCTGCGACGCCTAGAAGACCTTTCAGAACTATTGTTAATG
ATTTTGCCTACATGAAGAAGAGAGAAGAGGAGATGCGTGATACCAACGAGTCAACAAACACTCGGGTCTT
ATACTTCAGCATCTTTTCAATGTTCTGTCTCATTGGACTAGCTACCTGGCAGGTCTTCTACCTGCGACGC
TTCTTCAAGGCCAAGAAATTGATTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200579 representing NM_006827
 Red=Cloning site Green=Tags(s)

MSGLSGPPARRGPFPLALLLLFLLGPRLLVAISFHLPIINSRKCLREEIHKDLLVTGAYEISDQSGGAGGL
 RSHLKITDSAGHILYSKEDATKGFKAFTTEDYDMFEVCFESKGTGRIPDQLVILDMKHGVEAKNYEEIAK
 VEKLPLEVELRRLLEDLSEIVNDFAYMKKREEEMRDTNESTNTRVLYFSIFSMFCLIGLATWQVFLRR
 FFKAKKLIE

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006827

ORF Size: 657 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_006827.6](#)

RefSeq Size: 4108 bp

RefSeq ORF: 660 bp

Locus ID: 10972

UniProt ID: [P49755](#)

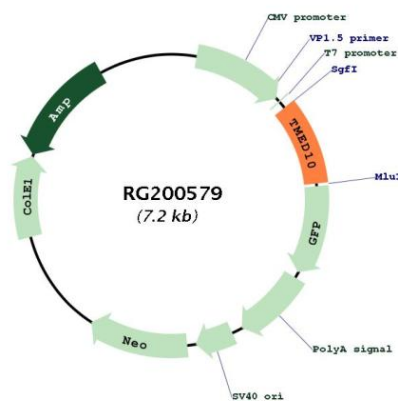
Cytogenetics: 14q24.3

Domains: EMP24_GP25L

Protein Families: Transmembrane

Gene Summary: This gene is a member of the EMP24/GP25L/p24 family and encodes a protein with a GOLD domain. This type I membrane protein is localized to the plasma membrane and golgi cisternae and is involved in vesicular protein trafficking. The protein is also a member of a heteromeric secretase complex and regulates the complex's gamma-secretase activity without affecting its epsilon-secretase activity. Mutations in this gene have been associated with early-onset familial Alzheimer's disease. This gene has a pseudogene on chromosome 8. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200579