

## Product datasheet for **RC233570**

### C18orf10 (TPGS2) (NM\_001271950) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C18orf10 (TPGS2) (NM_001271950) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C18orf10
Synonyms:	C18orf10; HMFN0601; L17; PGS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233570 representing NM_001271950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGGAGGAGGCATCGTCCCCGGGCTGGGCTGCAGCAAGCCGCACCTGGAGAAGCTGACCCTGGGCA  
TCACGCGCATCTAGAATCTTCCCAGGTGTGACTGAGGTGACCATCATAGAAAAGCCTCCTGCTGAACG  
TCATATGATTTCTTCTGGGAACAAAAGAATAACTGTGTGATGCCTGAAGATGTGAAGAATTTTACCTG  
ATGACCAATGGCTTCCACATGACATGGAGTGTGAAGCTGGATGCCAGTGATGATCAGCCAGAGAAGCCTC  
ACTTTGACTCTCGCAGTGTGATATTTGAGCTGGATTCATGCAATGGCAGTGGAAAGTTTGCCTTGTCTA  
CAAAAGTGGGAAACCAGCATTAGCAGAAGACACTGAGATCTGGTTCTGGACAGAGCGTTATACTGGCAT  
TTTCTCACAGACACCTTTACTGCCTATTACCGCCTGCTCATCACCCACCTGGGCCTGCCCCAGTGGAAT  
ATGCCTTACCAGCTATGGCATTAGCCACAGGCCAAGCAATGGTTCCAGCATGTATAAACCTATCACCTA  
CAACACAAACCTGCTCACAGAAGAGACCGACTCCTTTGTGAATAAGCTAGATCCCAGCAAAGTGTTAAG  
AGCAAGAACAAGATCGTAATCCCAAAAAGAAAGGGCCTGTGCAGCCTGCAGGTGGCCAGAAAGGGCCCT  
CAGGACCCTCCGGTCCCTCCACTTCTCCACTTCTAAATCCTCCTCTGGCTCTGGAACCCACCCGGAA  
G

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233570 representing NM\_001271950  
 Red=Cloning site Green=Tags(s)

MEEEASSPGLGCSKPHLEKLTGITRILESSPGVTEVTIIKPPAERHMISSEWQKNNCVMPEDEVKNFYLM  
 MTNGFHTWSVKLDASDDQPEKPHFDSRSVIFELDSCNGSGKVCLVYKSGKPALAEDTEIWFLDRALYWH  
 FLTDTFTAYYRLLITHLGLPQWQYAFTSYGISPQAKQWF SMYKPI TYNTNLLTEETDSFVNKLDPSKVFK  
 SKNKIVIPKKKGPVQPAGGQKGPSGSPSTSSSTKSSSGSGNPTRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001271950

**ORF Size:** 771 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\\_001271950.1](#), [NP\\_001258879.1](#)

**RefSeq Size:** 3939 bp

**RefSeq ORF:** 774 bp

**Locus ID:** 25941

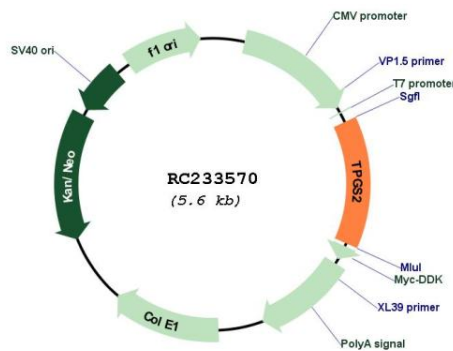
**UniProt ID:** [Q68CL5](#)

**Cytogenetics:** 18q12.2

**MW:** 29.1 kDa

**Gene Summary:** This gene encodes a protein that is a component of the neuronal polyglutamylase complex, which plays a role in post-translational addition of glutamate residues to C-terminal tubulin tails. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2012]

### Product images:



Circular map for RC233570