

Product datasheet for **RG233590**

C18orf10 (TPGS2) (NM_001271949) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C18orf10 (TPGS2) (NM_001271949) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C18orf10
Synonyms:	C18orf10; HMFN0601; L17; PGs2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233590 representing NM_001271949 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGGAGGCATCGTCCCCGGGCTGGGCTGCAGCAAGCCGCACCTGGAGAAGCTGACCCTGGGCA
TCACGCGCATCTAGAATCTTCCCAGGTGTGACTGAGGTGACCATCATAGAAAAGCCTCTGCTGAACG
TCATATGATTTCTTCTGGGAACAAAAGAATAACTGTGTGATGCCTGAAGATGTGAAGAAGCTTTACCTG
ATGACCAATGGCTTCCACATGACATGGAGTGTGAAGCTGGATGACCTGGAGGACGATACACATGAAGCCA
GTGATGATCAGCCAGAGAAGCCTCACTTTGACTCTCGAGTGTGATATTTGAGCTGGATTCATGCAATGG
CAGTGGGAAAGTTTGCCTTGTCTACAAAAGTGGGAAACCAGCATTAGCAGAAGACACTGAGATCTGGTTC
CTGGACAGAGCGTTATACTGGCATTCTCACAGACACCTTTACTGCCTATTACCGCCTGCTCATACCC
ACCTGGGCTGCCCAAGTGGCAATATGCCTTACCAGCTATGGCATTAGCCACAGGCCAAGCAATGGTT
CAGCATGTATAAACCTATCACCTACAACACAACTGCTCACAGAAGAGACCGACTCCTTTGTGAATAAG
CTAGATCCCAGCAAAGTGTAAAGAGCAAGAACAAGATCGTAATCCCAAAAAGAAAGGGCCTGTGCAGC
CTGCAGGTGGCCAGAAAGGGCCCTCAGGACCCTCCGGTCCCTCCACTTCTCCACTTCTAAATCCTCCTC
TGGCTCTGGAAACCCACCCGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233590 representing NM_001271949
 Red=Cloning site Green=Tags(s)

MEEEASSPGLGCSKPHLEKLTGLITRILESSPGVTEVTIIIEKPPAERHMISSEWQKNNCVMPEDEVKNFYL
 MTNGFHMTWSVKLDDLEDDTHEASDDQPEKPHFDSRSVIFELDSCNGSGKVCLVYKSGKPALAEDTEIWF
 LDRALYWHFLTDTFTAYYRLLITHLGLPQWQYAFTSYGISPQAKQWFSMYKPITYNTNLLTEETDSFVNK
 LDPSKVFKSKNKIVIPKKKGPVQFAGGQKGPSGSPSTSTSKSSSGSGNPTRK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271949

ORF Size: 795 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_001271949.1](#), [NP_001258878.1](#)

RefSeq Size: 3963 bp

RefSeq ORF: 798 bp

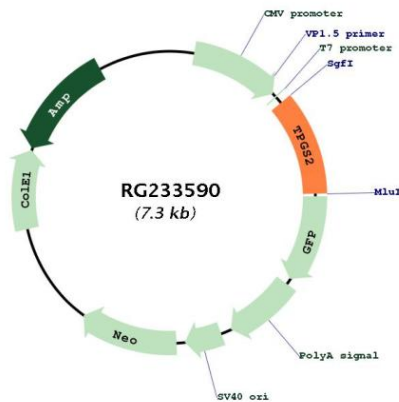
Locus ID: 25941

UniProt ID: [Q68CL5](#)

Cytogenetics: 18q12.2

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 RG233590