

## Product datasheet for **RC233260**

### **C19orf12 (NM\_001256046) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** C19orf12 (NM\_001256046) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** C19orf12  
**Synonyms:** MPAN; NBIA3; NBIA4; SPG43  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233260 representing NM\_001256046  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTCTGGGGAGAGGAAGATGAAGGCGG  
CTGTCAAGCACTCTGGGAAGGTGCCCTGGTCACAGGGGCCATGGCCTTCGTCGGGGTTTGGTGGGCGG  
CCCACCGGACTCGCCGTTGGGGGGCTGTGGGGGGCTGTTAGGTGCCTGGATGACAAGTGGACAGTTT  
AAGCCGGTTCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTAAACGAAGCCGCAG  
CCATCATCAGGCCCTGCAGCAGCAGCTGCTGGCCATGCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233260 representing NM\_001256046  
**Red=Cloning site Green=Tags(s)**  
MTIMVEDIMKLLCSLSGERKMKAAVKHSGKALVTGAMAFVGGLVGGPPGLAVGGAVGGLLGAWMTSGQF  
KVPVQILMELPPAEQQLFNEAAAIIRPCSSSCWPCW

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001256046

**ORF Size:** 321 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\\_001256046.2](#)

**RefSeq Size:** 4628 bp

**RefSeq ORF:** 324 bp

Locus ID: 83636

UniProt ID: [Q9NSK7](#)

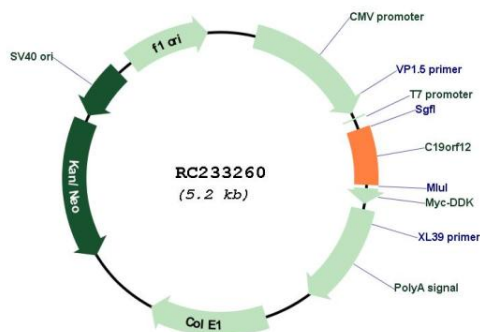
Cytogenetics: 19q12

Protein Families: Transmembrane

MW: 11.6 kDa

**Gene Summary:** This gene encodes a small transmembrane protein. Mutations in this gene are a cause of neurodegeneration with brain iron accumulation-4 (NBIA4), but the specific function of the encoded protein is unknown. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

### Product images:



Circular map for RC233260