

Product datasheet for **RC235483**

C19orf12 (NM_001282929) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C19orf12 (NM_001282929) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: C19orf12
Synonyms: MPAN; NBIA3; NBIA4; SPG43
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235483 representing NM_001282929
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACAAGTGGACAGTTTAAGCCGGTTCCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGC
TCTTTAACGAAGCCGAGCCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCAGCTGACCGCGTGGT
CATGGGCAGCGAGGCCCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAACACGTACCAAGGAGCTGCGG
GCCGAGATCCAGTATGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235483 representing NM_001282929
Red=Cloning site Green=Tags(s)

MTSGQFKPVPQILMELPPAEQQLFNEAAAIIRHLEWTDVQLTALVMGSEALQQLLAMLVNYVTKELR
AEIQYDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

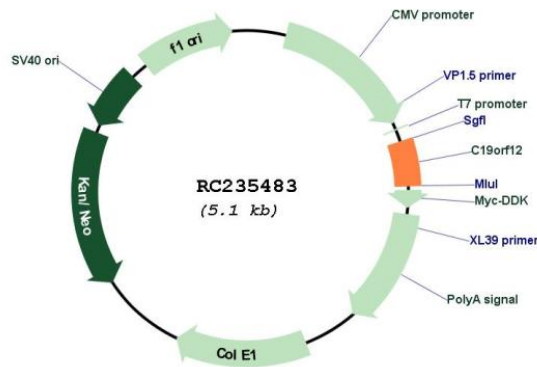


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001282929

ORF Size: 231 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:	<ol style="list-style-type: none">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:	<u>NM_001282929.1</u> , <u>NP_001269858.1</u>
RefSeq Size:	4242 bp
RefSeq ORF:	234 bp
Locus ID:	83636
UniProt ID:	<u>Q9NSK7</u>
Cytogenetics:	19q12
Protein Families:	Transmembrane
MW:	9.2 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]