

Product datasheet for **RC216851**

C19orf12 (NM_001031726) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C19orf12 (NM_001031726) 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: >RC216851 representing NM_001031726
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGGCTGAAGTCACACAAGCCCGCCACGATGACTATCATGGTGGAGGACATCATGAAGCTGCTGT
GCTCCCTTTCTGGGGAGAGGAAGATGAAGGCGGCTGTCAAGCACTCTGGGAAGGGTGCCTGGTACAGG
GGCCATGGCCTTCGTGGGGGTTTGGTGGGCGGCCACCGGACTCGCCGTTGGGGGGGCTGTGGGGGG
CTGTTAGGTGCCTGGATGACAAGTGGACAGTTTAAGCCGGTTCCTCAGATCCTAATGGAGCTGCCCTG
CCGAGCAACAGAGGCTCTTTAACGAAGCCGACCCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCA
GCTGACCGCGCTGGTCATGGGCAGCGAGGCCCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTC
ACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216851 representing NM_001031726
Red=Cloning site Green=Tags(s)

MERLKSHKPATMTIMVEDIMKLLCSLSGERKMKAAVKHSGK GALVTGAMAFVGGLVGGPPGLAVGGAVGG
LLGAWMTSGQFKPVPQILMELPPAEQQLFNAAAAIIRHLEWTDVQLTALVMGSEALQQQLLAMLVNYV
TKELRAEIQYDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

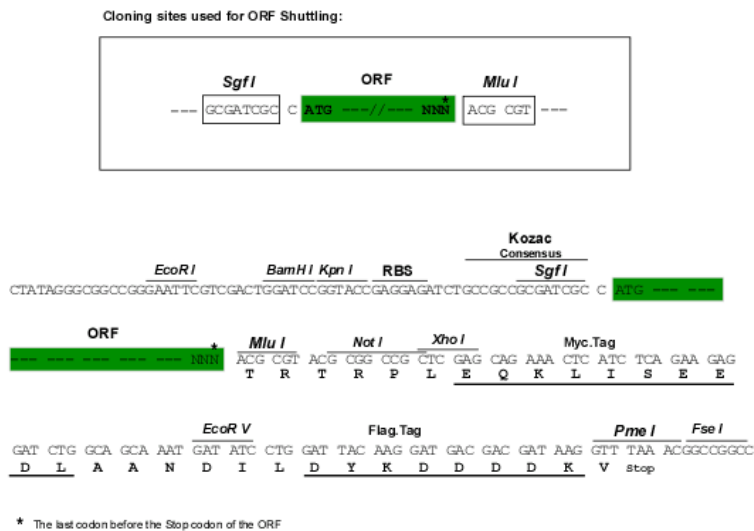
Chromatograms: https://cdn.origene.com/chromatograms/mg3868_e01.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001031726

ORF Size: 456 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001031726.3](#), [NP_001026896.2](#)

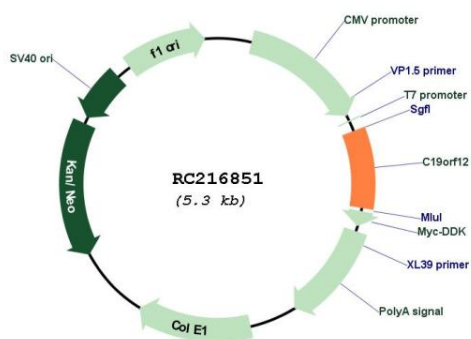
RefSeq Size: 4431 bp

RefSeq ORF: 459 bp

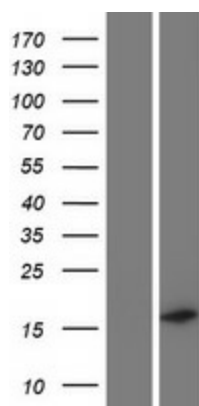
Locus ID: 83636
UniProt ID: [Q9NSK7](#)
Cytogenetics: 19q12
Protein Families: Transmembrane
MW: 16.1 kDa

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 RC216851



Western blot validation of overexpression lysate (Cat# [LY422175]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216851 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).