

Product datasheet for **RG216851**

C19orf12 (NM_001031726) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C19orf12 (NM_001031726) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: C19orf12
Synonyms: MPAN; NBIA3; NBIA4; SPG43
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216851 representing NM_001031726
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGGCTGAAGTCACACAAGCCCGCCACGATGACTATCATGGTGGAGGACATCATGAAGCTGCTGT
GCTCCCTTTCTGGGGAGAGGAAGATGAAGGCGGCTGTCAAGCACTCTGGGAAGGGTGCCTGGTCACAGG
GGCCATGGCCTTCGTCGGGGTTTGGTGGGCGGCCACCGGGACTCGCCGTTGGGGGGTGTGGGGGG
CTGTTAGGTGCCTGGATGACAAGTGGACAGTTAAGCCGGTTCCTCAGATCCTAATGGAGCTGCCCTG
CCGAGCAACAGAGGCTCTTTAACGAAGCCGAGCCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCA
GCTGACCGCGCTGGTCATGGGCAGCGAGCCCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTC
ACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216851 representing NM_001031726
Red=Cloning site Green=Tags(s)

MERLKSHKPATMTIMVEDIMKLLCSLSGERKMKAAVKHSGKALVTGAMAFVGGLVGGPPGLAVGGAVGG
LLGAWMTSGQFKPVPQILMELPPAEQQLFNAAAAIIRHLEWTDVQLTALVMGSEALQQQLLAMLVNYV
TKELRAEIQYDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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.

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

RefSeq Size: 4431 bp

RefSeq ORF: 459 bp

Locus ID: 83636

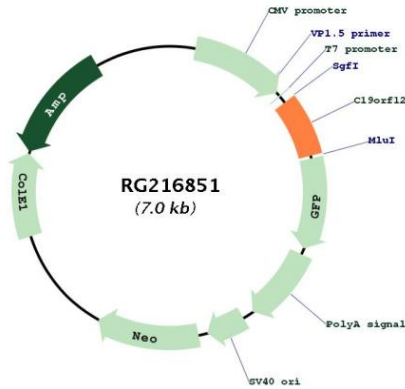
UniProt ID: [Q9NSK7](#)

Cytogenetics: 19q12

Protein Families: Transmembrane

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 RG216851