

Product datasheet for **RG223171**

C19orf12 (NM_031448) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C19orf12 (NM_031448) 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: >RG223171 representing NM_031448
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTCTGGGGAGAGGAAGATGAAGGCGG
CTGTCAAGCACTCTGGGAAGGGTGCCCTGGTCACAGGGGCCATGGCCTTCGTCGGGGGTTTGGTGGGCGG
CCCACCGGACTCGCCGTTGGGGGGCTGTGGGGGGCTGTTAGGTGCCTGGATGACAAGTGGACAGTTT
AAGCCGGTTCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTAAACGAAGCCGCAG
CCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCAGCTGACCGCGCTGGTCATGGGCAGCGAGGCCCT
GCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTACCAAGGAGCTGCGGGCCGAGATCCAGTATGAT
GAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223171 representing NM_031448
Red=Cloning site Green=Tags(s)
MTIMVEDIMKLLCSLSGERKMKA AVKHSKGKALVTGAMAFVGGGLVGGPPGLAVGGAVGGLLGAWMTSGQF
KPVPQILMELPPAEQQLFNAAAIIIRHLEWTDVQLTALVMGSEALQQLLAMLVNYVTKELRAEIQYD
D

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

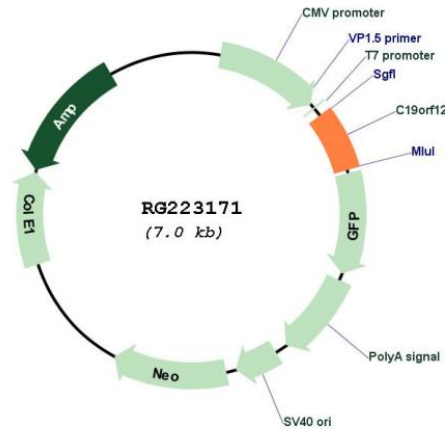


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Cloning Scheme:



Plasmid Map:



ACCN: NM_031448

ORF Size: 423 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_031448.6</u>
RefSeq Size:	4702 bp
RefSeq ORF:	426 bp
Locus ID:	83636
UniProt ID:	<u>Q9NSK7</u>
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]