

Product datasheet for SC317241

C19orf12 (NM_031448) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C19orf12 (NM_031448) Human Untagged Clone
Tag:	Tag Free
Symbol:	C19orf12
Synonyms:	MPAN; NBIA3; NBIA4; SPG43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317241 representing NM_031448. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTCTGGGGAGAGGAAGATGAAGGCG
 GCTGTCAAGCACTCTGGGAAGGGTGCCCTGGTCACAGGGGCCATGGCTTCGTCGGGGGTTTGGTGGGC
 GGCCACCGGGACTCGCCGTTGGGGGGGCTGTCGGGGGGCTGTTAGGTGCCTGGATGACAAGTGGACAG
 TTTAAGCCGGTTCCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTTAACGAAGCC
 GCAGCCATCATCAGGCACCTGGAGTGGACGGACCCGTGCAGCTACCGCGCTGGTCATGGGCAGCGAG
 GCCCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAACACGTACCAAGGAGCTCGGGCCGAGATCCAG
 TATGATGACTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_031448
Insert Size:	426 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_031448.4</u>
RefSeq Size:	4683 bp
RefSeq ORF:	426 bp
Locus ID:	83636
UniProt ID:	<u>Q9NSK7</u>
Cytogenetics:	19q12
Protein Families:	Transmembrane
MW:	15 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and initiates translation at a downstream, in-frame start codon, compared to variant 1. Variants 2 and 4 encode the same isoform (2), which has a shorter N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>