

## Product datasheet for **RG235484**

### **C19orf12 (NM\_001282930) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C19orf12 (NM_001282930) 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:	>RG235484 representing NM_001282930. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**  
**ATGACAAGTGGACAGTTTAAGCCGGTTCCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGG**  
**CTCTTTAACGAAGCCGCAGCCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCAGCTGACCGCGCTG**  
**GTCATGGGCAGCGAGGCCCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAACCTACGTCACCAAGGAGCTG**  
**CGGGCCGAGATCCAGTATGATGAC**  
**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:	>Peptide sequence encoded by RG235484 Blue=ORF Red=Cloning site Green=Tag(s)
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**MTSQQFKVPVQILMELPPAEQQRLFNEAAAIIRHLEWTDVAVQLTALVMGSEALQQQLLAMLVNYVTKEL**  
**RAEIQYDD**  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
**MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP**  
**SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA**  
**FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV**

Restriction Sites:	Sgfl-Mlul
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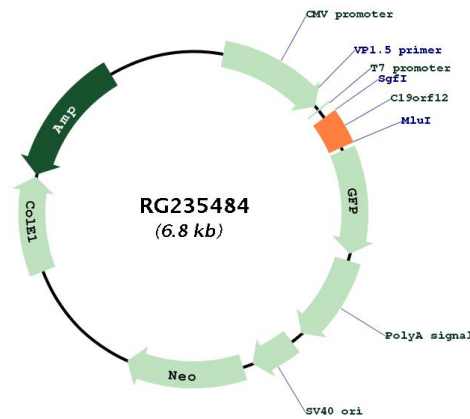


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282930

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001282930.2</a>
<b>RefSeq Size:</b>	4513 bp
<b>RefSeq ORF:</b>	234 bp
<b>Locus ID:</b>	83636
<b>UniProt ID:</b>	<a href="#">Q9NSK7</a>
<b>Cytogenetics:</b>	19q12
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	9.2 kDa
<b>Gene Summary:</b>	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]