

## Product datasheet for **RG235464**

### **IQSEC2 (NM\_001243197) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IQSEC2 (NM\_001243197) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IQSEC2  
**Synonyms:** BRAG1; IQ-ArfGEF; MRX1; MRX18; MRX78  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235464 representing NM\_001243197.  
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
ATGGAGCCCCCGGGAGGAGCAGCAGGTCCACAGCGTCTCATACTCTACACCAAGTATTGCTGTCCTACT  
CAGGTCTTGACTCCATGAAGCTTACCCCTCAGGCAGGCTGGCAGAGAGCAGGGAAGAGGAGGAGGAG  
GAGGAGACTGAGGAAGAGGAAGAGGAAGACGCTCACCAGTTCTGCTGTCCGGCCTCCGAGTGCAGTAGT  
CCCTCCTCTCGG  
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:** >Peptide sequence encoded by RG235464  
Blue=ORF Red=Cloning site Green=Tag(s)

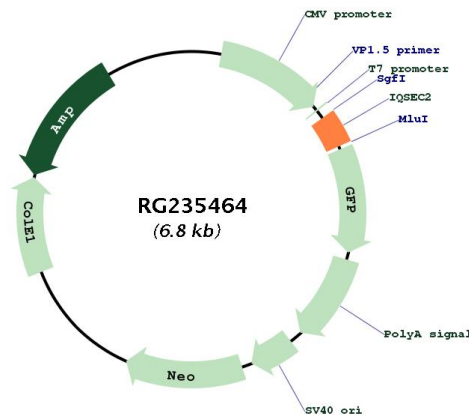
MEPPGRSSRSTASHTLHQYCCPTQVLDSMKLTPSGRLAESREEEEEETEEEEEDAHQFCPPASECSS  
PSSR  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**

**ACCN:** NM\_001243197

**ORF Size:** 219 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_001243197.2</a>
<b>RefSeq Size:</b>	971 bp
<b>RefSeq ORF:</b>	222 bp
<b>Locus ID:</b>	23096
<b>UniProt ID:</b>	<a href="#">Q5JU85</a>
<b>Cytogenetics:</b>	Xp11.22
<b>Protein Pathways:</b>	Endocytosis
<b>MW:</b>	8.6 kDa
<b>Gene Summary:</b>	This gene encodes a guanine nucleotide exchange factor for the ARF family of small GTP-binding proteins. The encoded protein is a component of the postsynaptic density at excitatory synapses, and may play a critical role in cytoskeletal and synaptic organization through the activation of selected ARF substrates including ARF1 and ARF6. Mutations in this gene have been implicated in nonsyndromic X-linked cognitive disability. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]