

Product datasheet for **RC235464**

IQSEC2 (NM_001243197) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IQSEC2 (NM_001243197) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: IQSEC2

Synonyms: BRAG1; IQ-ArfGEF; MRX1; MRX18; MRX78

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide Sequence: >RC235464 representing NM_001243197
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCCCCCGGGAGGAGCAGCAGGTCCACAGCGTCTCATACTCTACACCAGTATTGCTGTCTACTC
AGGTCCTTGACTCCATGAAGCTTACCCCTCAGGCAGGCTGGCAGAGAGCAGGGAAGAGGAGGAGGAGGA
GGAGACTGAGGAAGAGGAAGAGGAAGACGCTCACCAGTTCTGCTGTCCGGCTCCGAGTGCAGTAGTCCC
TCCTCTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235464 representing NM_001243197
Red=Cloning site Green=Tags(s)

MEPPGRSSRSTASHTLHQYCCPTQVLDSMKLTPSGRLAESREEEEEETEEEEEDAHQFCCPASECSP
SSR

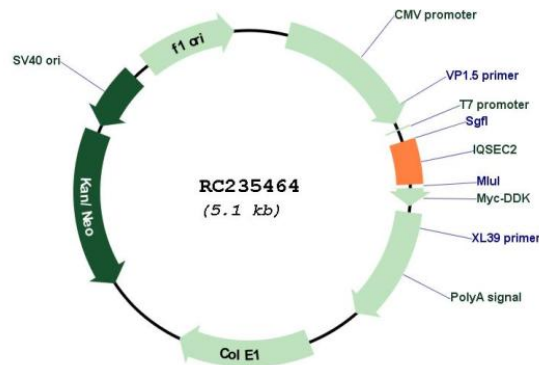
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

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](#)

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:	NM_001243197.2
RefSeq Size:	971 bp
RefSeq ORF:	222 bp
Locus ID:	23096
UniProt ID:	Q5JU85
Cytogenetics:	Xp11.22
Protein Pathways:	Endocytosis
MW:	8.6 kDa
Gene Summary:	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]