

Product datasheet for **SC333358**

IQSEC2 (NM_001243197) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQSEC2 (NM_001243197) Human Untagged Clone
Tag:	Tag Free
Symbol:	IQSEC2
Synonyms:	BRAG1; IQ-ArfGEF; MRX1; MRX18; MRX78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333358 representing NM_001243197. Blue=Insert sequence Red=Cloning site Green=Tag(s)

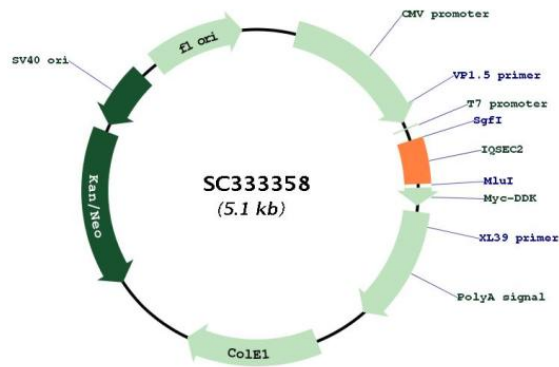
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCCCCCGGGAGGAGCAGCAGGTCCACAGCGTCTCATACTCTACACCAAGTATTGCTGTCCTACT
CAGGTCTTGACTCCATGAAGCTTACCCCTCAGGCAGGCTGGCAGAGAGCAGGGAAGAGGAGGAGGAG
GAGGAGACTGAGGAAGAGGAAGAGGACGCTCACCAGTTCTGCTGTCCGGCCTCCGAGTGCAGTAGT
CCCTCTCTCGGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:



ACCN: NM_001243197

Insert Size: 222 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).

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:

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_001243197.1](#)

RefSeq Size: 971 bp

RefSeq ORF: 222 bp

Locus ID: 23096

UniProt ID: [Q5IU85](#)

Cytogenetics: Xp11.22

Protein Pathways: Endocytosis

MW: 8.2 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]

Transcript Variant: This variant (3) shares no exons with variant 1, and differs in the 3' UTR and coding region compared to variant 2. The encoded isoform (3) is significantly shorter and has a distinct C-terminus, compared to isoform 2.