

## Product datasheet for **MR231342**

### **Iqsec3 (NM\_001289685) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Iqsec3 (NM_001289685) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Iqsec3
Synonyms:	AK122446; BRAG3; mKIAA1110; synarfGEF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR231342 representing NM\_001289685  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTAGAACACAAATACGGGGCCACCTGGTATCCCAGCGCGCCGCTGCACCATTCAAACCGCTTTTC  
 GCCAGTACCAGCTCAGCAAGAACCTTTGAGAAGATCCGTAACCTCGTCCTGGAGAGCCGCCTGCCTCGGCG  
 GATCTCACTGCGCAAGGTGAGGGCGCCACAGCGGAGAGTCTGGTGGCAGAGAAGGCGCTCCTGGAGGGC  
 TGTGGGCTCCTTGGGCTCCCGCTGGGGCGCTCGCCCTCGCTGCCGCCACCTTCGCTGGCTCGCTCACCG  
 AGCTGGAGGACTCCTTTACCGAGCAGGTGCAGTCCCTGGCCAAGTCCATCGACGACGCCCTCAGCACCTG  
 GAGCCTCAAGACCATGTGCTCGCTGCAAGAGAGTGGCGGTACCAGCTCCACCAGGCGCTGCACCCGAGT  
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 AGGCCGGTGGTCTGCCTCAGGGTACAGCGGTACCCTCATGATGGCTTTCCGGGACGTTACGGTGCAGAT  
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 GCCCAGGCCACAGCCGAGCTGTGCCGCCAAGCCGAACAAGAGGACACCGCGGATCAGGAGGTCTCGG  
 AAGTCCCAGCCTCGGAACAGATGGACCCACCCAGTGAGGACTCAGAGGCAGCGGAGAGCCGCGCCAGAG  
 CGCACAGGAACCCGCGGTGGCACAGGCCGTGGTGGAGGAGGCGGTGGCTACAGAGGCAGAGGAGGAAGAG  
 GAGGGGGCCAAACAGGCAGGGAAGGGGGCAGAGGCCGAGGGAGGCGCAACTCTGAGCAGCTGAGCAGCA  
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 GGCTGTGATCCTGAGCTTGCCTCCGCTATCACTGCGAGAACCAGCCAGCTGCAGGTCCCCACGCTCTCC  
 ACAGACACCCTGCGCAAGCGGCTGTACCGCATCGGCCCAACCTTTCAACATAAATCCGGACAAGGGCA  
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 GATCCAGCAAAAGGAGCTCAAATCCAATGAGGACCATGTCACATATGTCACCAAGGTGGAGAAGTCCATC  
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 CCGATGTGAACAAGCTACAGAAACAAGCAGCACACCAGAGAGAAGTGTTCTCTTCAATGATCTGCTTGT  
 GATTCTCAAGCTATGCCCAAAGAAGAAGAGCTCCTTACAGTACACCTTCTGCAAGGCAGTCGGCCTGTTA  
 GGCATGGCCTTTACCTCTTCGAGAACGAGTATTACTCCCATGGCATCACCTGGCAACCCCACTCTCGG  
 GCTCCGAGAAGAAGCAGGTGCTGCACCTTCTGTGCCCTGGGCTCCGACGAGATGCAGAAGTTCTGTGAAGA  
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 CGCCCCGCCCCATAACAACCCTCATCAGTTCTGCCCCAGGCTCCATGCTGCTCCGGCGCCGTTA  
 CTCAGCGGCTCCAGGAGCTGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231342 representing NM\_001289685  
 Red=Cloning site Green=Tags(s)

MLEHKYGGHLVSRRAACTIQTAFRQYQLSKNF EKIRNSLLESRLPRRISLRKVRAPTAESLVAEKALLEG  
 CGLLGLPLGRSPSLPPTFAGSLTELEDSFTEQVQSLAKSIDDALSTWSLKTMCSLQESGAYQLHQALHPS  
 AGQPGLETEAAAAREPESGPGSGDEAGGLPQGHSGTLMMAFRDVTVQIANQNISVSSSTALSVANCLGAQT  
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 TDTLRKRLYRIGLNLFNINPDKGIQFLISRGFIPDTPIGVAHFLLQRKGLSRQMI GEF LGNSKKQFN RDV  
 LDCVVDEMDFSNMELDEALRKFQAHIRVQGEAQKVERLIEAFSQRVCMCNPEVVQQFHNPDTIFILAF AI  
 ILLNTDMYSPNIKPD RKMLED F IRNLRGVDDGADIPREL VVGIYERIQQKELKSNEDHVTYVTKVEKSI  
 VGMKTVLSMPHRRLVCCSRLFEVTDVNKLQQA AHQREVFLFNDLLVILKLCPKKKSSFTYTFCKAVGLL  
 GMRFHLFENEYSHGITLATPLSGSEKKQVLHFCALGSDQM KFVEDLKESIAEVTELEQIRIEWELEKQ  
 QGKTLSVRSAGA QGDPQSKQGSPTAKREAMEGKAAESSGEVSIHNRLQTSQHSPKLGVERGAPAPSP  
 TSPPPLPPDPQPSPLREQPPPLPLPPPTPPGTLVQCQQIVKVI VLDKPC LARMEPLLSQLSCYASSSSD  
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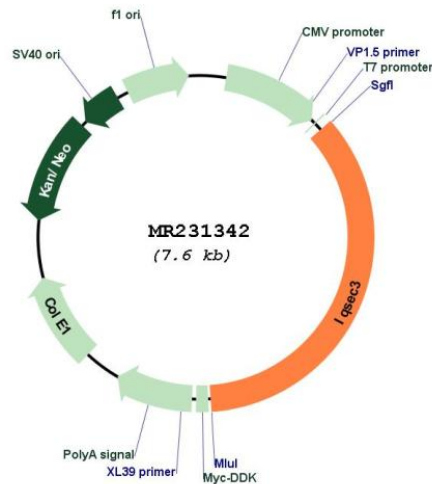
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001289685

**ORF Size:** 2685 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:**

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\\_001289685.1](#), [NP\\_001276614.1](#)

**RefSeq Size:** 6575 bp

**RefSeq ORF:** 2688 bp

**Locus ID:** 243621

**Cytogenetics:** 6 F1

**MW:** 98.1 kDa

**Gene Summary:** Acts as a guanine nucleotide exchange factor (GEF) for ARF1.[UniProtKB/Swiss-Prot Function]