

## Product datasheet for **MC229131**

### **Iqsec3 (NM\_001289685) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Iqsec3 (NM_001289685) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC229131 representing NM\_001289685  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCTAGAACACAAATACGGGGCCACCTGGTATCCCAGCGCCCGCTGCACCATTCAAACCGCTTTTC  
 GCCAGTACCAGCTCAGCAAGAACCTTGAGAAGATCCGTAACCTCGTCCTGGAGAGCCGCTGCTCGGGC  
 GATCTCACTGCGCAAGGTGAGGGCGCCACAGCGGAGAGTCTGGTGGCAGAGAAGGCGCTCCTGGAGGGC  
 TGTGGGCTCCTTGGGCTCCCGCTGGGGCTCGCCCTCGCTGCCGCCACCTTCGCTGGCTCGCTCACCG  
 AGCTGGAGGACTCCTTACCAGCAGGTGCAGTCCCTGGCCAAGTCCATCGACGACGCCCTCAGCACCTG  
 GAGCCTCAAGACCATGTGCTCGCTGCAAGAGAGTGGCGGTACCAGCTCCACCAGGCGTGCACCCGAGT  
 GCGGGACAGCCAGGCTGGAGACCAGGGCGGGCGGGAGCCAGAGAGCGGCCCGGGTCTGGAGATG  
 AGGCCGGTGGTCTGCCTCAGGCTCACAGCGGTACCCTCATGATGGCTTTCGGGACGTTACGGTGCAGAT  
 CGTAACCAAGACATCTCTGTTTCTCCTCCACCGCCCTGTCTGTGGCCAACTGTCTGGGTGCACAGACC  
 GCCCAGGCCACAGCCGAGCTGTGCCGCCAAGCCGAACAAGAGGACACCGCGGATCAGGAGGTCTCGG  
 AAGTCCCAGCCTCGAACAGATGGACCCACCCAGTGAGGACTCAGAGGCAGCGGAGAGCCGCGCCAGAG  
 CGCACAGGAACCCGCGGTGGCACAGGCCGTGGTGGAGGAGGCGGTGGCTACAGAGGCAGAGGAGGAAGAG  
 GAGGGGGCCAAACAGGCAGGGAAGGGGGCAGAGGCCGAGGGAGGCGCAACTCTGAGCAGCTGAGCAGCA  
 GCAGCGCTTCCACCAAGTCTGCCAAATCCAGCTCAGAGGCTTCTGCCGCTGCCTCCAAGGAGGCCCTGCA  
 GGCTGTGATCCTGAGCTTGCCTCCGCTATCACTGCGAGAACCAGCCAGCTGCAGGTCCCCACGCTCTCC  
 ACAGACACCCTGCGCAAGCGGCTGTACCGCATCGGCCCAACCTTTCAACATAAATCCGGACAAGGGCA  
 TCCAGTTCTGATCTCAGTGGCTTTCATCCCTGACACCCCATCGGTGTGGCCACTTCTCCTCCAGCG  
 TAAAGGCCTCAGCCGCCAGATGATAGGAGATTCTGGGCAACAGCAAGAAGCAGTTCAACCGGGACGTG  
 CTGGACTGTGTGGTAGATGAGATGGACTTTTCCACATGGAGCTGGATGAAGCCCTGAGGAAGTTTCAAG  
 CCCACATCCGTGTGACGGGGGAAGCACAGAAGGTGGAGCGACTCATAGAAGCTTTCAGCCAGCGCTACTG  
 CATGTGCAATCCTGAGGTGGTGAACAGTTCACAACCCAGACACCATCTTCATCCTGGCCTTGGCCATC  
 ATCCTTCAACACCGACATGTACAGCCCCAACATCAAGCCTGACCGGAAGATGATGCTAGAAGACTTTA  
 TCCGGAACCTCCGAGGTGGATGATGGTGCAGACATCCCAGAGAACTGGTGGTAGGCATCTATGAGAG  
 GATCCAGCAAAAGGAGCTCAAATCCAATGAGGACCATGTCACATATGTCACCAAGGTGGAGAAGTCCATC  
 GTGGGCATGAAGACGGTGTGTCAATGCCACACCGTGCCTGGTCTGCTGTAGCCGGCTCTTCGAGGTGA  
 CCGATGTGAACAAGCTACAGAAACAAGCAGCACACCAGAGAGAAGTGTTCTCTTCAATGATCTGCTTGT  
 GATTCTCAAGCTATGCCAAAGAAGAAGAGCTCCTTACAGTACACCTTCTGCAAGGCAGTCGGCCTGTTA  
 GGCATGGCCTTTCACCTTTCGAGAACGAGTATTACTCCCATGGCATCACCTGGCAACCCCACTCTCGG  
 GCTCCGAGAAGAAGCAGGTGCTGCACCTTCTGTGCCCTGGGCTCCGACGAGATGCAGAAGTTCTGGGAAGA  
 CCTGAAGGAGTCCATCGCTGAGGTGACAGAGCTGGAGCAGATCCGGATAGAATGGGAACTGGAGAAGCAG  
 CAGGGCACAAAGACTCTCTCCGTAAGGTCTGCTGGAGCCCAAGGGGACCCACAGTCAAGCAAGGATCAC  
 CCACAGCCAAGAGGGAGGCGATGGCAGGAGAGAAAGCGGGGAGAGCTCGGGGAGGTGTCAATTCACAA  
 CAGGCTTCAAACGTCCCAGCACAGCCCCAAGTTGGGGTTCGAGAGGGGAGCGCCTGCACCATCACACCA  
 ACATCACACCGCGTTCGCCGCCAGCCACAGCCTAGCCCCCTGAGGGAGCAGCCCCACCGCTGCCAC  
 TGCCACCACCCACACTCCAGGCACCCTGGTACAGTGCCAGCAGATTGTCAAGGTCATTGTCTGGACAA  
 ACCCTGCTTGGCCCGCATGGAGCCCTGCTGAGCCAGGCTCTGTCTGTTACGCCTCATCCTCCTCAGAC  
 TCCTGTGGCTCCACACCTTGCCTGGTCCAGGCTCCCCAGTTAAGGTCATCCACCAGCCTCCACTGCCCC  
 CGCCCCGCCCCATAACAACCCTCATCAGTTCTGCCCCAGGCTCCATGCTGCTCCGGCGCCGTTA  
 CTCACGCGCTCCAGGAGCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI  
 ACCN: NM\_001289685

<b>Insert Size:</b>	2688 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001289685.1, NP_001276614.1</u>
<b>RefSeq Size:</b>	6575 bp
<b>RefSeq ORF:</b>	2688 bp
<b>Locus ID:</b>	243621
<b>Cytogenetics:</b>	6 F1
<b>Gene Summary:</b>	Acts as a guanine nucleotide exchange factor (GEF) for ARF1.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an alternate exon in the 5' region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.