

## Product datasheet for **MC223570**

### Iqsec1 (NM\_001134384) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Iqsec1 (NM\_001134384) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Iqsec1  
**Synonyms:** AW561907; BC026481; BRAG2; cl-43; D6Ertd349e  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223570 representing NM\_001134384  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTTGCCGAAGACGCTATTTTGTGAGGGCGAGGCCCCAGCAGCGAGACTGGCACATCGTGGACA  
GCCCTCAGCCTACCATCAGGGTCCCCTGGTACCTGGTCCAGCCTGAGTCCAGACCACTACGAGCACAC  
ATCAGTGGGCGCCTATGGGCTGTACGCAGGGCCAGGACCAACAGCGCACACGGAGGCCCGGCTGCAG  
CACTCGACCTCAGTCCTGCGCAAGCAGGCTGAGGAGGAGGCCATCAAGCGCTCTCGGTCACTCTCTGAGA  
GCTATGAGCTCTTTAGATCTGCAAGCAAGCAGGTGGAATGCTAGAACGCAAGTATGGGGGACGCCCT  
CGTGACCCGCCATGCAGCCCGCACCATCCAGACGGCGTTCCGCCAATACCAGATGAACAAGAATTTGAG  
CGCCTGCGCAGCTCCATGTCCGAGAACCAGTGTACGTGCGATTGTGCTGTCCAACATGAGGATGCAGT  
TCTCCTTTGAGGGCCCGAGAAGGTGCACAGCTCCTACTTTGAGGGAAAGCAGGTCTCTGTGACTAATGA  
TGGCTCCCAGTGGGGGCCCTGGTGCCATCAGAATGTGGAGACCTTAGTGACCCAGCCCTCAAGTCTCCA  
GCCCCCTCCAGTGACTTTGCAGATGCCATCACGGAAGTGGAGGATGCCTTCTCCAGGCAGGTGAAATCCC  
TGGTGAATCCATCGATGATGCCCTCAATTGCCGAGCCTACACAGTGAGGAGGTACCAGCCTCAGACAC  
GGCCCGGGCTCGGGACTGAGCCCAAACAGGTCTACATGGCATGGACCACCGCAAACCTGGATGAGATG  
ACAGCCTCGTATAGTGTGACCTCTACATTGATGAGGAAGAGCTGTACCACCCTTCCACTCTCAC  
AGGCTGGCGATCGGCCCTCCAGCACAGAGTCGGACCTGCGGCTGAGGTCTGGGGGTGCAGCCAGGACTA  
CTGGGCCCTGGCCACAAGAGGACAAGGCTGACACGGACACAAGCTGCCGAAGCACACCATCACTGGAG  
CGGCCAGAGCCAGGCTGCGGGTGGAGCACCTGCCCTGCTTACCATTGAGCCACCCAGTGATAGTCCG  
TGGAACTCAGTGACCGCTCAGATCGCAGCTCAAGAGGCAGAGTGCCTATGAGCGCAGCCTCGGTGG  
GCAGCAGGGCAGCCCCAAGCATGGCCCCACGGTGGCCCCCAAGGCCCTCCCAGGGAGGAACCTGAA  
TTGCGGCCTCGGCCCCAGACCTTTGAGAGTCACTAGCCATCAATGGTTTCAGCCAACCGGCAGAGCA  
AATCTGAGTCTGACTACTCAGATGGGGACAATGACAGCATCAACAGCACCTCCAATCCAATGACACCAT  
AAACTGCAGCTCTGAGTCTCATCACGGGACAGCCTGCGGGAACAGACACTCAGCAAGCAGACATACCAC  
AAGGAGACCCGCAACAGCTGGGACTCTCCAGCTTTGAGCAACGATGTCATCCGTAAGAGGCATTACCGAA



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TTGGCCTAAATCTCTTCAACAAGAAGCCTGAGAAGGGCATCCAGTATCTCATTGAGCGGGCTTCGTGCC
CGACACGCCAGTGGGAGTGGCCACTTCTCTGCTGCAGCGCAAGGGCTCAGCCGCCAGATGATCGGTGAG
TTCTGGGAAACCGGCAGAAAGCAGTTCAACCGTATGTGCTCGACTGTGTTGTGGACGAGATGGACTTCT
CTGCCATGGAGCTAGATGAAGCCCTCCGGAAGTTCAGGCACACATCCGAGTCCAAGGGGAGGCTCAGAA
AGTGGAGCGGCTCATCGAGGCATTCAGCCAGCGGTACTGTGTCTGCAACCCAGGGGTGGTGCACAGTTC
CGGAACCCAGACACCATTTCATCTGGCCTTCGCCATCATCTGCTCAACACAGACATGTACAGCCCCA
ATGTCAAGCCAGAGCGCAAAATGAAGCTGGAGGACTTTGTCAAGAACCCTCCGAGGTGTGGATGACGGTGA
AGACATTCGCCGGGAGACGCTAATTGGGATCTATGAGCGAATCCGTAAGCGAGAACTGAAGACCAACGAG
GACCACGTGTCCAGGTGCAAGAAGTTGAGAAGCTCATCGTGGGCAAGAAGCCGATTGGATCCCTGCATC
ATGGTCTTGGCTGTGTGCTGTCTCTTCCCATCGACGACTAGTCTGCTACTGCCGGCTTTTTGAAGTTCC
TGACCCCAACAAACCCAGAAAGCTGGGACTACACCAGCGAGAGATCTTCTGTTTAAATGACCTCCTGGT
GTCACCAAGATCTTCCAGAAGAAGAAGAACTCGGTGACATACAGCTTCCGGCAGTCTTCTCCCTACG
GCATGCAGGTCTGCTCTCGAGAACCAGTACTATCCCAATGGCATCCGGCTGACGTCTGCTGTCCCTGG
AGCAGACATCAAAGTGCTAATAAACTTCAACGCTCCCAATCCTCAGGACCAGGAAGTTCACTGACGAC
CTGCGGGAGTCTGTGCTGAAGTCAAGAGATGGAGAAACACCGAATAGAGTCGGAGCTCGAGAAGCAGA
AAGGTGTGCTGCGGCCAGCATGTCACAGTGTCCAGCCTCAAAAAGGAGTCAGGCAACGGGACACTGAG
CAGGGCTTGCTGGATGACAGCTATGCCAGTGGCGAGGGCCTCAAGCGCAGCGCCCTCAGCAGCTACTG
AGAGACCTCTCAGAAGCGGGGAAGCGAGGGCGTCGACGAGTGCAGGATCGTAGAGAGCAATGTGGAAG
GCTCCATCATTAGCAGTCTCACATGCGCCGGAGAGCGACCTCAACACGAGAGTGCCCATCTCGCCCCC
CCAGCCGTGCCTAACTCTCTCTCTCTGGTTCTTTGTTGGGAGCAGGAGAGGGAAGCCCCCTCCC
CAGGCCACCCACCCTCAGCCCCCCCCAGCACCCCTCACGCCATCACCTGGGCCCTCAGAAGGCC
CACTGCATGGACATCATGCACAGTACTGCCATGCACAGCAGAATCCTCCGCCATCACACCACCACCA
CTACCACCCACCCCCACCTGCAGCACACCCACCAGTACCACCATGGCCACACGGCGGGCACCCTCCG
TATGGGGCCCATGCACACAGCCACCCGCTCTGCCACAGCTCACCTGGTTCATGCAGGGCACTCAGCGC
ATCATCATGGGCAGCCCCCTGCCACCACCCACCAGCAGCAAGGCCAAGCCAGCGGCATCAGCAC
AGTTGTGTAG

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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001134384
- Insert Size:** 3300 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\\_001134384.1](#), [NP\\_001127856.1](#)

RefSeq Size: 6490 bp

RefSeq ORF: 3300 bp

Locus ID: 232227

Cytogenetics: 6 40.16 cM

**Gene Summary:** Guanine nucleotide exchange factor for ARF1 and ARF6. Guanine nucleotide exchange factor activity is enhanced by lipid binding. Accelerates GTP binding by ARFs of all three classes. Guanine nucleotide exchange protein for ARF6, mediating internalisation of beta-1 integrin. [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (b). 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.