

## Product datasheet for **RC213836**

### **IQSEC1 (NM\_014869) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IQSEC1 (NM_014869) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IQSEC1
Synonyms:	ARF-GEP100; ARFGEP100; BRAG2; GEP100; IDDSSBA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC213836 representing NM\_014869  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGTGCCTGCACTGCAACTCGAGAGGACCCAGTCCCTTCTGGAGCTAGAGCTTGACAGCGGCGTCC  
 AGGGCGAGGCCCCAGCAGTGGACTGGACATCCCTGGACAGCCCTCAGCCTACCCCAAGGGCCCTT  
 GGTGCCCGGTTCCAGCCTGAGCCCGGATCACTACGAGCACACGTAGTGGGAGCCTATGGGCTGACTCG  
 GGGCCCGGGGCAACAGCAGCGCACGCGGAGGCCAAGCTGCAGCACTCGACCTCCATCCTGCGCAAGC  
 AGGCTGAGGAGGAGGCCATCAAGCGCTCACGCTACTCTCCGAGAGCTATGAGCTCTCCTCGACCTGCA  
 GGACAAGCAGGTGGAGATGCTAGAACGAAAGTATGGGGGGCGCCTGGTAACCCGCCATGCGGCCCGCACC  
 ATCCAGACGGCGTTTCGCCAGTACCAGATGAACAAGAAGTTCGAGCGCTTGGCAGCTCCATGTCAGAGA  
 ACCGCATGTCACGCCGATTGTGCTGTCCAACATGAGGATGCAGTTCTCCTTTGAGGGCCCTGAGAAAGT  
 GCACAGCTCCTACTTCGAGGGGAAGCAGGTCTCAGTGACTAACGACGGCTCCAGCTGGGAGCCCTGGTG  
 TCCCTGAGTGTGGTGCCTCAGCGAGCCACCACCCTCAAGTCTCCGGCCCCCTCCAGTGACTTTGCGG  
 ACGCCATCACCGAGCTGGAGGACGCTTCTTAGGCAAGTGAATCACTGGCCGAGTCCATCGACGATGC  
 CCTCAACTGCCGAGCCTGCACACTGAGGAGGCACCGCCCTGGATGCGGCGCGGGCCCGGGACACCGAA  
 CCCCAGACAGCCCTGCACGGCATGGACCACCGAAACTGGACGAGATGACGGCCTCGTACAGTGTATCA  
 CCCTGTACATCGATGAGGAGGAGCTGTGCCCCCTCTGCCCTCTCGCAGGACAGGGGACCGCCGCTCCAG  
 CACCGAGTCGGACCTGCGGCTACGGGCTGGGGGCGCAGCCCCAGACTACTGGCCCTGGCCACAAGAG  
 GACAAGGCTGACACGGACAGAGCTGCCGAGCACGCCGTGCTGGAGCGGCAGGAGCAGCGGCTGCGGG  
 TGGAGCATCTGCCGCTGCTCACCATCGAGCCACCAGCAGCAGCTCTGTGGACCTTAGTGACCCGTCGGA  
 CGGGGGTCACTCAAGAGGCAGAGTGCTTACGAGCGCAGCCTTGGCGGGCAGCAGGGCAGTCCCAAGCAT  
 GGTCCCCACAGCGCGCCCCCAAGAGCCTCCCCGGGAGGAGCCTGAGTTGCGGCCCGGCCCCCAAGC  
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 CGGTGACAATGACAGCATCAACAGCACGTCCAACGATACCATCAACTGCAGCTCCGAGTATCG  
 TCCCGTGACAGCCTGCGGGAGCAGACGCTCAGCAAGCAGACCTACCACAAGGAGGCCCGCAACAGCTGGG  
 ACTCGCCTGCCTTAGCAACGATGTCATCCGCAAGAGGCACTACCGCATCGGCCTGAACCTTTCAACAA  
 GAAGCCTGAGAAGGGAGTCCAGTACCTCATCGAGCGTGGCTTTGTGCCGACACGCCCGTGGGGTGGCC  
 CACTTCTGCTGCAGCGCAAGGGCTCAGCCGGCAGATGATCGGGGAGTTCCTGGCAACCGGCAGAAAGC  
 AGTTCAACCGTGACGTGCTCGACTGCGTGGTGGACGAGATGGACTTCTCTACCATGGAGCTGGATGAGGC  
 CCTCAGGAAATCCAGGCGCACATCCGTGTCCAAGGGGAGGCTCAGAAAGTGGAGCGGCTCATAGAGGCG  
 TTCAGCCAGCGCTACTGCATCTGCAACCCTGGGGTGGTGCGGCAATTCGGAAACCCAGACACCATTTTCA  
 TCCTGGCCTTCGCCATCATCCTGCTGAACCCGACATGTACAGCCCCAATGTCAAGCCCGAGCGGAAAT  
 GAAGCTAGAGGACTTCATCAAGAACCTCCGAGGTGTGGACGATGGTGAGGACATTCGCCGTGAGATGCTG  
 ATGGGGATCTATGAACGGATCCGTAAGCGAGAGCTAAAGACCAATGAGGACCATGTGTCCAGGTGCAGA  
 AGGTGGAGAAGCTCATTGTGGGAAAAAGCCGATCGGATCCCTGCATCCCGGGCTCGGCTGTGTGCTCTC  
 TCTGCCCCACCGTCCGTTGGTCTGCTACTGCCGCTCTTTGAGGTTCCAGACCCAAACAAGCCCCAGAAA  
 CTGGACTACACCAGCGAGAAATCTTCTGTTCAACGACCTCCTGGTGGTCAACAGATCTTCCAGAAGA  
 AGAAGAATCGGTGACGTACAGTTCGACAGTCTTCTCCTTGTACGGCATGCAGGTCTGCTCTTCGA  
 GAACAGTACTACCCCAATGGCATCCGGCTCACCTCGTCTGTCCCGGAGCAGATATCAAAGTGTAAATA  
 AACTTCAACGCCCCCAACCCTCAAGACCGGAAGAAATTCACCGATGACCTGCGGGAGTCCATTGCGGAAG  
 TCCAAGAGATGGAGAAGCACAGGATAGAGTCGGAGCTCGAGAAGCAGAAAGGCGTGTGCGGCCAGCAT  
 GTCCAGTGTCTAGCCTCAAAAAGGAGTCGGGCAACGGAACACTGAGCCGGGCTGCTGGACGACAGC  
 TATGCCAGCGGTGAGGGCTCAAGCGCAGCGCCCTCAGCAGCTCCCTGCGGGACCTCTCGAAGCCGGGA  
 AGCGAGGGCGTGCAGCAGTGCGGGATCGCTAGAGAGCAATGTGGAATTCAGCCTTTCGAGCCACTGCA  
 GCCGTAGTGTGCTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC213836 representing NM\_014869  
Red=Cloning site Green=Tags(s)

MWCLHCNSERTQSLELELDGSGVEGEAPSSETGTSLDSPSAYPQGGLVPGSSSPDHYEHTSVGAYGLYS  
 GPPGQQQRTRRPKLQHSTSI LRKQAE EEAIKRSRSLSESYELSSDLQDKQVEMLERKYGGRLVTRHAART  
 IQTAFRQYQMNKNFERLRSSMSENRMSRRIVLSNMRMQFSFEGPEKVHSSYFEGKQVSVTNDGSQLGALV  
 SPECGLDSEPTTLKSPAPSSDFADAITELEDAFSRQVKSLAESIDDALNCRSLHTEEPALDAARARDE  
 PQTALHGMDHRKLDEMTASYSDVTLYIDEEELSPPLPLSQAGDRPSSTESDLRLRAGGAAPDYWALAHKE  
 DKADTDTSCRSTPSLERQEQLRVEHLPLLTIEPPSDSSVDLSDRSERGS LKRQSAYERSLGGQQGSPKH  
 GPHSGAPKSLPREPELPRPPRPLDSLHAIINGSANRQSKSESDYSDGDNDSINSTSNSNDTINCSSSESS  
 SRDSLREQTL SKQTYHKEARNSWDSPAFSNDVIRKRHYRIGLNLFNKKPEKGVQYLIERGFVPDTPVGVA  
 HFLLQRKGLSRQMI GEF LGNRQKQFN RDVLD CVVDEMDFSTMELDEALRKFAQHIRVQGEAQKVERLIEA  
 FSQRYCICNPGVVRQFRNPDTIFILAFAILLNTDMYSPNVKPERKMKLEDFIKNLRGVDDGEDIPREML  
 MGIYERIRKRELKT NEDHVSQVQKVEKLVGKKPIGSLHPGLGCVLSLPHRRLVCYCRLEFVDPDPNPKPQK  
 LGLHQREIFL FNDLLVVTKIFQKKKNSVTYSFRQSFSLYGMQVLLFENQYYPNGIRL TSSVPGADIKVLI  
 NFNAPNPQDRKKFTDDLRESIAEVQEMEKHRIESELEKQKGVVRPSMSQCSSLKKESNGNTLSRACLDSS  
 YASGEGLRKRSALSSSLRDLSEAGKRGRSSAGSLESNVEFQPFPEPLQPSVLCSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg8005\\_f09.zip](https://cdn.origene.com/chromatograms/mg8005_f09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



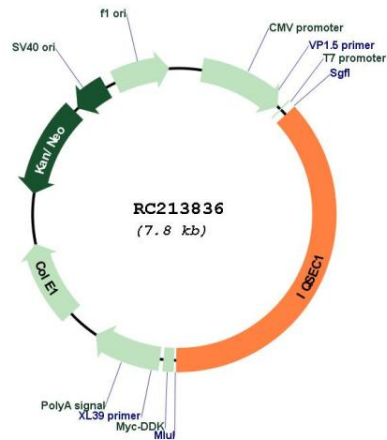
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_014869

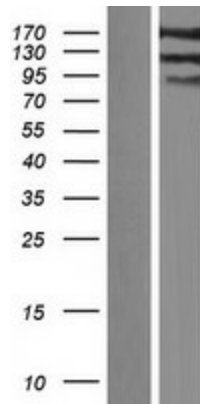
**ORF Size:** 2889 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_014869.8</a>
<b>RefSeq Size:</b>	4414 bp
<b>RefSeq ORF:</b>	2892 bp
<b>Locus ID:</b>	9922
<b>UniProt ID:</b>	<a href="#">Q6DN90</a>
<b>Cytogenetics:</b>	3p25.2-p25.1
<b>Protein Pathways:</b>	Endocytosis
<b>MW:</b>	108.1 kDa
<b>Gene Summary:</b>	Guanine nucleotide exchange factor for ARF1 and ARF6 (PubMed:24058294). Guanine nucleotide exchange factor activity is enhanced by lipid binding (PubMed:24058294). 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]

Product images:



Circular map for RC213836



Western blot validation of overexpression lysate (Cat# [LY414977]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213836 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).