

## Product datasheet for **RG226333**

### **IQSEC1 (NM\_001134382) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IQSEC1 (NM\_001134382) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IQSEC1  
**Synonyms:** ARF-GEP100; ARFGEP100; BRAG2; GEP100; IDDSSBA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG226333 representing NM\_001134382  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGCTTGCGAAGACGCTATTTTCGTCGAGGGCGAGGCCCCAGCAGTGAGACTGGCACATCCCTGGACA  
 GCCCTCAGCCTACCCAGGGCCCTTGGTGCCCGTTCCAGCCTGAGCCCGGATCACTACGAGCACAC  
 GTCAGTGGGAGCCTATGGGCTGTACTCGGGCCCGGGGCAACAGCAGCGCACGCGGAGGCCAAAGCTG  
 CAGCACTCGACCTCCATCCTGCGCAAGCAGGCTGAGGAGGAGCCATCAAGCGCTCACGCTCACTCTCCG  
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 CCTGGTAACCCGCCATGCGGCCCGACCATCCAGACGGCGTTTCGCCAGTACCAGATGAACAAGAACTTC  
 GAGCGCTTGCAGCTCCATGTCAGAGAACCAGTGTACGCGCGATTGTGCTGTCCAACATGAGGATGC  
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 TCTCCGGCCCCCTCCAGTGACTTTGCGGACGCCATCACCGAGCTGGAGGACGCCTTCTTAGGCAAGTGA  
 AATCACTGGCCGAGTCCATCGACGATGCCCTCACTGCCGAGCTGCACACTGAGGAGGCCACCGGCCCT  
 GGATGCGGCGCGGGCCCGGGACACCGAACCCAGACAGCCCTGCACGGCATGGACCACCGCAAACCTGGAC  
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 GCTCTGTGGACCTTAGTGACCGCTCGGAGCGGGGTCCTCAAGAGGCAGAGTGCTTACGAGCGCAGCCT  
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 TACCATCAACTGCAGCTCCGAGTCATCGTCCCGTGACAGCCTGCGGGAGCAGACGCTCAGCAAGCAGACC



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TACCACAAGGAGGCCCGCAACAGCTGGGACTCGCCTGCCTTTAGCAACGATGTCATCCGCAAGAGGCACT  
 ACCGCATCGGCCTGAACCTCTTCAACAAGAAGCCTGAGAAGGGAGTCCAGTACCTCATCGAGCGTGGCTT  
 TGTGCCCGACACGCCCGTCGGGGTGGCCACTTCTGCTGCAGCGCAAGGGCCTCAGCCGGCAGATGATC  
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 ACGGCCACCCGCGCTGCCCTCGGCCACGTGGGGCACACAGTGCACCACCATGGGCAGCCCCCTGCCCC  
 GCCCCCCCACCAGCAGCAAGGCCAAACCAGCGGCATCAGCACAAATTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG226333 representing NM\_001134382  
 Red=Cloning site Green=Tags(s)

MACRRRYFVEGEAPSSSETGTSLDSPSAYPQGPLVPGSSLSPDHYEHTSVGAYGLYSGPPGQQQRTRRPKL  
 QHSTSILRKQAEIEAIKRSRSLSESYELSSDLQDKQVEMLERKYGGRLVTRHAARTIQTAFRQYQMNKNF  
 ERLRSSMSENRRSRRIVLSNMRMQFSFEGPEKVHSSYFEGKQVSVTNDGSQLGALVSPECGLDSEPTTLK  
 SPAPSSDFADAITLEDASFQVKSLEAIDDALNCRSLHTEEAPALDAARARDTEPQALHGMHRKLD  
 EMTASYSDVTLYIDEELSPPLPLSQAGDRPSSTESDLRLRAGGAAPDYWALAHKEDKADTDTSCRSTPS  
 LERQEQLRVEHLPLLTIEPPSDSSVDLSDRSEGLKQVSAERSLGGQGGSPKHGPHSGAPKSLPREE  
 PELRPRPRPLDShLAINGSANRQSKSESDYSDDNDINSNSNDTINCSSSESSRSLREQLSKQT  
 YHKEARNSWDSPAFSNDVIRKRHYRIGLNLFNKKPEKGVQYLIERGFVPDTPVGVAFLLQRKGLSRQMI  
 GEFLGNRQKQFNDRVLDVDEMDFSTMELDEALRKFAHIRVQGEAQKVERLIEAFSQRYSICNPVVR  
 QFRNPDTIFILAFAILLNTDMYSPNVKPERKMKLEDFIKNLRGVDDGEDIPREMLMGIYERIRKRELKT  
 NEDHVSQVQKVEKLIVGKKPIGSLHPGLGCVLSLPHRRLVCYCRLEFVDPNKPQKLGHLHQREIFLFDNL  
 LVVTKIFQKKNSVTYSFRQSFSLYGMQVLLFENQYYPNGIRLTSVPGADIKVLINFNAPNPQDRKKFT  
 DDLRESIAEVQEMEKHRIESELEKQKGVVRPMSQCSSLKKESNGTLSRACLDSSYASGEGLKRSALSS  
 SLRDLSEAGKRGRSSAGSLESNVEGSIISPHMRRRATSTRECPSPRHQTMPSNSSLGSLFGSKRGKP  
 PPQAHLPSAPALPPPVPVPLPHLQHSVAGHHLGPPEGLPQAAMHGHTQYCHMQNPPPYHHHHHHPPQ  
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TRTRPLE - GFP Tag - V

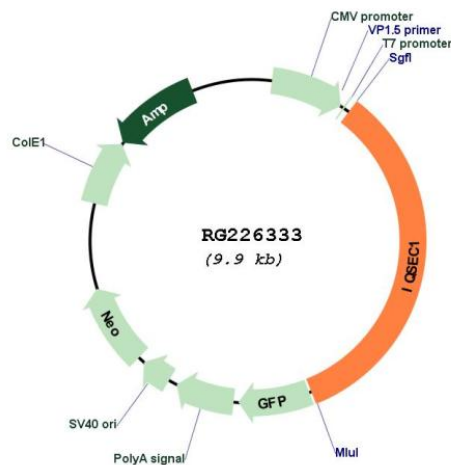
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001134382

**ORF Size:** 3342 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.

<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_001134382.3</u>
<b>RefSeq Size:</b>	7229 bp
<b>RefSeq ORF:</b>	3345 bp
<b>Locus ID:</b>	9922
<b>UniProt ID:</b>	<u>Q6DN90</u>
<b>Cytogenetics:</b>	3p25.2-p25.1
<b>Protein Pathways:</b>	Endocytosis
<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]