

Product datasheet for **MG227689**

Iqsec1 (NM_001134384) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Iqsec1 (NM_001134384) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Iqsec1
Synonyms: AW561907; BC026481; BRAG2; cl-43; D6Ertd349e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227689 representing NM_001134384
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTTGCCGAAGACGCTATTTTGTGAGGGCGAGGCCCCAGCAGCGAGACTGGCACATCGCTGGACA
 GCCCCTCAGCCTACCATCAGGGTCCCCTGGTACCTGGTCCAGCCTGAGTCCAGACCACTACGAGCACAC
 ATCAGTGGGCGCCTATGGGCTGTACGCAGGGCCAGGACCACAACAGCGCACACGGAGGCCCGGCTGCAG
 CACTCGACCTCAGTCCTGCGCAAGCAGGCTGAGGAGGAGGCCATCAAGCGCTCTCGGTCACTCTGAGA
 GCTATGAGCTCTTTCAGATCTGCAAGACAAGCAGGTGGAATGCTAGAACGCAAGTATGGGGGACGCT
 CGTGACCCGCCATGCAGCCCGCACCATCCAGACGGCGTTCCGCCAATACCAGATGAACAAGAACTTTGAG
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 GCCCCTCCAGTGACTTTGCAGATGCCATCAGGAACTGGAGGATGCCTTCTCCAGGCAGGTGAAATCCC
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AAGGAGACCCGCAACAGCTGGGACTCTCCAGCTTTCAGCAACGATGTCATCCGTAAGAGGCATTACCGAA
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 ATCATCATGGGACGCCCCCTGCCCCACCCGCCCCACCAGCAGCAAGGCCAAGCCAGCGGCATCAGCAC
 AGTTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227689 representing NM_001134384
 Red=Cloning site Green=Tags(s)

MACRRRYFVEGEAPSSSETGTSLDSPSAYHQGPLVPGSSLSPDHYEHTSVGAYGLYAGPGPQQRTRRRLQ
 HSTSVLRKQAEIEAIKRSRSLSESYELSSDLQDKQVEMLERKYGGRLVTRHAARTIQAFRQYQMNKNFE
 RLRSSMSSENRRRIVL SNMRMQFSFEGPEKVHSSYFEGKQVSVTNDGSQLGALVPSECGDLSDPALKSP
 APSSDFADAITELDAF SRQVKS LAESID DALNCRSLHSEVPASDTARARDTEPKPLGHGMDHRKLD
 TASYS DVTL YIDEEEL SPPLPLSQAGDRPSSTESDLRLRSGGAAQDYWALAHKEDKADTDTSCRSTPSLE
 RPEPRLRVEHLPLLTIEPPSDSSVELSDRSRSSLKRQSAYERSLGGQQGSPKHGPHGGPPKGLPREEPE
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 FLGNRQKQFN RDVLD CVVDEMDFSAMELDEALRKFQAHIRVQGEAQKVERLIEAFSQRVCVCPNGVVRQF
 RNPDTIFILAFAIILLNTDMYSPNVKPERKMKLEDFVKNLRGVDDGEDIPRETLIGIYERIRKRELKTN
 DHVSQVQKVEKLVGKKPIGSLHHGLGCVLSLPHRRLVCYCRLEFVDPNKPQKLGHQREIFLNDLLV
 VTKIFQKKKNSVTYSFRQSFSLYGMQVLLFENQYYPNGIRLTSAPVGADIKVLINFNAPNPQDRKKFDD
 LRESVAEVQEMEKHRIESELEKQKGVVRPSMSQCSSLKKESNGTL SRACLDDSYASGEGLRKRSALSSSL
 RDLSEAGKRGRSSAGSLESNVEGSISSPHMRRRATSTRECPSPRPQVVPNSSLLGSLFGSRRGKPPP
 QAHPPSAPPPAPPHAHHPGSEGPLHGHAQYCHAQNPYPYHHHHHHYHPPHLLQHTHQYHHGPHGGHPP
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TRTRPLE - GFP Tag - V

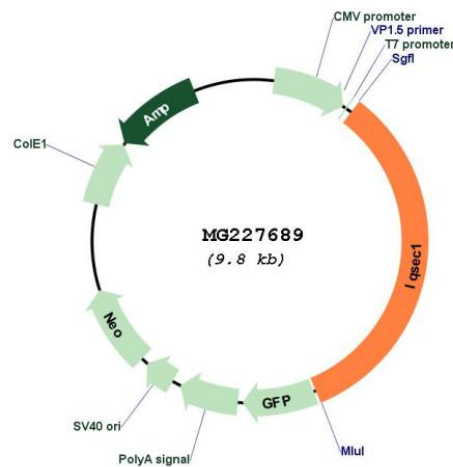
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001134384

ORF Size: 3297 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:	<ol style="list-style-type: none">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:	<u>NM_001134384.1, NP_001127856.1</u>
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]