

Product datasheet for **RG239938**

IQGAP2 (NM_001285462) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQGAP2 (NM_001285462) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IQGAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239938 representing NM_001285462. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGTGTAAAAAGGAGTTGTAGCTGTAGGGTACATCAATGAAGCTATTGATGAAGGGAATCCTTTG
AGGACTTTAGAACTTTGCTCCTACCTACTGCGAATATTAGTGATGTGGACCCAGCCCATGCCAGCAC
TACCAGGATGTTTTATACCATGCTAAATCACAGAACTCGGAGACTCTGAGAGTGTTCCAAAGTGCTT
TGGCTGGATGAGATACAGCAAGCCGTCGATGATGCCAAGTGGACGAGGACAGAGCAAAACAATGGGTT
ACTCTGGTGGTTGATGTTAATCAGTGTTTGAAGGAAAAAATCAAGTGATATTTGTCTGTATTGAAG
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TATGACTACTATTACAACACTGATTCAAAAGAGAGTTCCTGGGTCACACCTGAATCATGCTGTATAAAA
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CACAGGCGCAAACGTTCAATGATAAATACTGATTCTATTGTGAAGATTCAGTCTGGTCCGAATGGCA
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AAAGTCCTGAATTCTATCATTTCTCCCTTGATCTACTGCCTTATGGATTGAGGTATATAGCCAAAGTA
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 TTACTTCAGATGCAATATGAAGGAGTAGCTGTAATGAAAATGTTTGATAAGGTAAAGTGAATGTAAC
 CTTCATATACCTGCTGAACAAGAATTCTATGGAAG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG239938
 Blue=ORF Red=Cloning site Green=Tag(s)

MGCFKGVVAVGYINEAIDEGNPLRLETLLPTANISDVDPAHAQHYQDVL YHAKSQKLGDSESVSKVL
 WLDEIQQAVDDANVDEDRAKQWVTLVVDVNQCLEGKSSDILSVLKSSTSNANDIIEPCADKYDALVK
 AKELKSERVSSDGSWLKLNHKKYDYYNNTDSKESSWVTPESCLYKESWLTGKEIEAFWKGYKQRKEYM
 HRRQTFIDNTDSIVKIQSWFRMATARKSYLSRLQYFRDHNEIVKIQSLLRANKARDDYKTLVGENPP
 LTVIRKFFVYLLDQSDLDFQEELEVARLREEVVKIRANQLEKDLNMDIKIGLLVKNRITLEDVISHS
 KKLNKKKGGEMEILNNTDNQGIKSLSKERRKTLETYQQLFYLLQTNPLYLAKLIFQMPQNKSTKFMDTV
 IFTLYNYASNQREEYLLKLFKTALEEEIKSKVDQVQDIVTGNPTVIKMVVSFNRGARGQNTLRQLLAP
 VVKEIIDDKSLIINTNPVEVYKAWVNQLETQTEASKLPYDVTTEQALTYPEVKNKLEASIEENLRRVTD
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 DKYTDLVTYKPVIIYISIEEIIISTHSLLEHQDAIAPEKNDLSELLGSLGEVPTVESFLGEGAVDPND
 PNKANTLSQLSKTEISLVLTSKYDIEDGEAIDSRSLMIKTKKLIIDVIRNQPGNTLITEILETPATAQQE
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 KDIRNQRIYRKLKAELAKLQQLNALNKA AFYEEQINYYDITYIKTCLDNLKRKNTRRSIKLDGKGEP
 KGAKRAKPVKYTA AKLHEKGVLLDIDDLQTNQFKNVTFDIIATEDVGI FVRSKFLGVEMEKVQLNIQD
 LLQM QYEGVAVMKMFDKVKVNVNLLIYLLNKKFYGK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

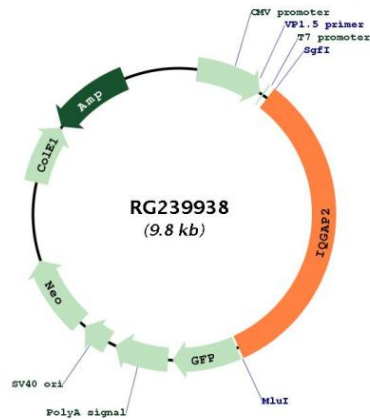
SgfI-MluI

Cloning Scheme:


ACCN:	NM_001285462
ORF Size:	3213 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).
RefSeq:	NM_001285462.1 , NP_001272391.1
RefSeq Size:	4171 bp
RefSeq ORF:	3216 bp
Locus ID:	10788
UniProt ID:	Q13576
Cytogenetics:	5q13.3
Protein Families:	Druggable Genome
Protein Pathways:	Regulation of actin cytoskeleton
MW:	123.3 kDa

Gene Summary:

This gene encodes a member of the IQGAP family. The encoded protein contains three IQ domains, one calponin homology domain, one Ras-GAP domain and one WW domain. This protein interacts with components of the cytoskeleton, with cell adhesion molecules, and with several signaling molecules to regulate cell morphology and motility. It also acts as a tumor suppressor and has been found to play a role in regulating innate antiviral responses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2017]

Product images:


Circular map for RG239938