

Product datasheet for **SC337831**

IQGAP2 (NM_001285461) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQGAP2 (NM_001285461) Human Untagged Clone
Tag:	Tag Free
Symbol:	IQGAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001285461, the custom clone sequence may differ by one or more nucleotides

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ATGCACTCACTTCCAGGAGTTGTAGCTGTAGGGTACATCAATGAAGCTATTGATGAAGGGAATCCTTTGA
GGACTTTAGAACTTTGCTCCTACTACTGCGAATATTAGTGATGTGGACCCAGCCCATGCCAGCACTA
CCAGGATGTTTTATACCATGCTAAATCACAGAACTCGGAGACTCTGAGAGTGTTCCTAAAGTGCTTTGG
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CACTTCTAATGCAAAATGACATAATCCCGGAGTGTGCTGACAAATACTATGATGCCCTGTGAAGGCAAAA
GAGCTCAAATCTGAAAGAGTGTCTAGTGACGGTTCATGGCTCAAACCTCAACCTGCACAAAAAATATGACT
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AAACAGTCATTTATATTTCAATTGAGAAATCATCAGCACACTCACTCCTGTTGGAACACCAGGATG
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AATCTTAGAGACACCAGCAACTGCGCAACAGGAGGTAGACCATGCCACGGACATGGTGAAGGCGCAATG
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AGCAGAAGAAGAGGAAAAATCCAGAGGAATCTCGGACGTTGGAACAGACTGGACAGTGTGATCCGAAAA
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AAGCTGCATGAGAAAGGTGTCCTGCTAGATATAGATGATCTTCAAACAACCCAGTTAAGAAATGTTACAT
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AAAGGTGCAACTCAATATTCAGGATTTACTTCAGATGCAATATGAAGGAGTAGCTGTAATGAAAATGTTT
GATAAGGTTAAAGTGAATGTAACCTTCTCATATACCTGCTGAACAAGAAGTTCTATGAAAAGTGA
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001285461
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:	<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:	NM_001285461.1 , NP_001272390.1
RefSeq Size:	4120 bp
RefSeq ORF:	3216 bp
Locus ID:	10788
UniProt ID:	Q13576
Cytogenetics:	5q13.3
Protein Families:	Druggable Genome
Protein Pathways:	Regulation of actin cytoskeleton
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) has several differences compared to variant 1, including an alternate 5' terminal exon, use of an alternate translation initiation codon and lacking an in-frame coding exon. The resulting shorter isoform (3) has a novel N-terminus and lacks an internal protein segment compared to isoform 1.</p>