

## Product datasheet for **MC224793**

### **Iqgap1 (NM\_016721) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Iqgap1 (NM\_016721) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Iqgap1  
**Synonyms:** AA682088; D7Ertd237e; D7Ertd257e; mKIAA0051  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224793 representing NM\_016721  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCCGCGCGGAGGAGGTTGATGGCCTGGGTGTGGTCCGCGCCACTATGGCTCCGTCCTGGATAATG  
AGAGGCTCACTGCAGAGGAGATGGATGAGCGGAGACGGCAGAACGTGGCTTATGAATACCTTTGTCATCT  
GGAAGAAGCAAAGAGGTGGATGGAAGCATGCCTAGGTGAGGACCTGCCGCCACACAGAGCTAGAGGAG  
GGCCTTAGAAACGGAGTCTACCTTGCCAAGCTAGGGAACCTCTTCTCTCCCAAAGTGGTGTCCCTGAAGA  
AAATCTATGATCGAGAACAGACCAGATACAAGGCTACCGCCTCCACTTCAGACACACGGATAATGTGAT  
TCAGTGGCTGAATGCCATGGATGAGATTGGGTTGCCTAAGATTTTTTACCAGAAACCACAGATATCTAT  
GACCGGAAGAACATGCCAAGATGCATCTACTGTATCCACGCCCTCAGTTTGTACCTGTTCAAACCTGGGCC  
TGGCTCCTCAGATTCAAGACCTGTATGGAAAGGTTGATTCACAGAAGAAGAAATCAACAACATGAAGAT  
CGAGCTGGAGAAGTACGGGATCCAGATGCCTGCCTCAGCAAGATCGGGGCATCCTGGCTAATGAGCTC  
TCAGTGGATGAAGCTGCGCTACATGCTGCTGTTATTGCTATTAATGAAGCGATTGATCGCAGAGTTGCAG  
CTGACACTTTTACGGCTCTAAAAACCCCAATGCCATGCTCGTCAATCTTGAAGAAGGCCCTGCCAC  
GTACCAAGACGTGCTTTACCAGGCAAGCAGGACAAGATGACAAACGCTAAAAACAGACGGAAAACTCT  
GACAGAGAAAGGGACGTTTATGAGGAGCTGCTCACACAAGCTGAAATCCAAGGGAATGTAACAAGTCA  
ACACATCTTCTGCCCTGGCCAACATCAGCCTGGCTTTAGAGCAGGGCTGTGCAGTGACCCTGCTCAAGGC  
TCTGCAGTCACTGGCTCTGGCCTCCGAGGGCTGCAGACCCAGAACAGCGACTGGTACATGAAGCAGCTA  
CAGAGTGATCTGCAGCAAAGAGACAGAGTGGCCAGACTGACCCCTGCAGAAGGAGGAGGTACAGGCCG  
GAGTGGATGCTGCCAACAGTGTGCCACGAGTACCAACGACGGTTGGCAGCAGTGGCAGCAATCAACGC  
TGCCATCCAGAAGGGCATCGCTGAGAAGACCGTGTGGAGCTAATGAATCCTGAAGCCCAGCTGCCCCAG  
GTGTATCCATTTGCAGCTGATCTCTATCAGAAGGAGTTGGCCACCCTGCAGCAGCAGAGCCCTGAGCATA  
GCCTCACCCATCCTGAGCTCACTGTTGCTGGAGATGCTGTATCCGTTGGCCCTCATCAACAGGGCGCT  
GGAGTCAGGAGACATGACCACTGTGTGGAAGCAGCTGAGCAGCTCAGTTACGGGCCCTTACCAACATCGAG  
GAAGAAAACGTCAAAGGTATCTCGATGAGCTGATGAAGCTGAAGGCTCAGGCACATGCCGAGAATAATG



CATTATTACATGGAATGACATCCAGGCGTGTGTGGACCATGTGAACCTGGTGGTCCATGAGGAGCATGA  
 GCGGATTTTGGCCATCGGCTTGATTAATGAAGCCCTGGATGAAGGGGACGCTCAGAAGACTCTGCAGGCC  
 CTGCAGATCCCTGCAGCCAAGCTCGAGGGCGTCTTGCAGAAGTGGCACAGCACTATCAAGACACGCTGA  
 TCAGAGCAAAGAGAGAAAAAGGCCAGGAAACACAGGATGAGTCAGCTGTGTTATGGTTGGATGAAATTCA  
 AAGTGGAATCTGGCAGTCCAACAAGACACCCAAGAGGCCAGAGGTTTGCCTTAGGAATCTCTGCCATC  
 AATGAAGCAGTAGACAGCGGTGATGTTGGCAGAACCTGAGTGCCTACGTTCTCCCGACGTTGGCTTAT  
 ATGGAGTGATCCCCGAATGTGGGAAACGTACCAGAGTGACCTTGCTGAAGCCAAGAAGAAGAGACTGGC  
 AGCAGGAGATAAATACAGCAAGTGGGTGAAGCACTGGGTGAAAGCGGGTACCATTACTACCACAACCTG  
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 GATGCATCAAGCTCGAAAGCGCTATAGAGATCGCCTACAGTATTCGAGACCATATAAATGACATTATC  
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 CGCCTATGATTGTGGTCCGAAAGTTTGTCCACCTCCTGGACCAAAGTGATCAGGACTTCCAGGAGGAACT  
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 AACCTCATGGATATCAAAATCGGACTGCTGGTGAAGAACAAGTACAGCTGCAGGATGTGGTTTCCATA  
 GTAAAAAATTACAAAAAATAAGGAACAGCTGTCCGACATGATGATAAACAAGCAGAAGGGCGG  
 GCTCAAGGCTTTGAGCAAAGAGAAGAGGGAGAAGCTGGAGGCCTATCAGCATCTTTTTATCTCTGCAG  
 ACCAACCTACCTATCTGGCCAAGCTGATCTTTCAGATGCCACAAAACAAGTCCACCAAATTCATGGACT  
 CTGTGATCTTACGCTGTACAACATGCATCTAACAGCGGGAGGAGTACCTGCTGCGGCTCTTCCA  
 GAGACTCTGCAGGAGGAGATCAAGTCAAAGGTGGATCAGATTCAGAAATCGTGACAGAAACCTCACG  
 GTTATTAAGATGGTTGTAAAGTTTCAACCGTGGTGGCCGGGCCAGAATGCCCTCCGCGAGATCTTGGCCC  
 CTGTCGTGAAGGAAATTATGGATGACAAGTCTCTCAACATCAAAACCGACCTGTGGATATTTACAAGTC  
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 GCCTTGTCTCATGAAGAAGTGAAGACGAGGTTAGACAACCTCCATCAGGAACATGAGGGCCGTGACAGACA  
 AGTTCTCTCAGCCATCGTCAGCTCTGTGGACAAAATCCCTTATGGGATGCGCTTATTGCCAAAGTCT  
 GAAGGATCCCTGCACGAGAAGTCCCTGACGCTGGTGGAGCAGGCTGCTGAAGATTATCGGTAACCTG  
 CTTTACTACCGATACATGAACCCAGCCATCGTCGCTCCCGATGCCTTCGACATCATTGACCTGTCAGCAG  
 GGGGCCAGCTCACCACAGACCAGCGCAGAAACCTGGGCTCCATTGCCAAGATGCTCCAGCAGCGGGCGTC  
 CAACAAGATGTTTCTGGGCGATAATGCCACTTAAAGCATTAATGAGTATCTCTCGCAGTCTACCAG  
 AAATTCAGACGGTTTTTCCAAGTGGCTGTGACGTCCCAGAGCTGCAGGATAAATTTAACGTGGATGAGT  
 ACTCTGACCTAGTCACCCTCACTAAGCCAGTTATCTACATCTCCATTGGCGAAATCATCAACACCCACAC  
 TCTCCTGTTGGACCATCAGGATGCCATTGCTCCAGAGCATAACGACCCCATCCACGAACCTTCTGGACGAC  
 CTTGGGGAGGTGCCACCATTGAGTCCCTTATAGGAGAAAAGCTGTGGCAATTCAAACGACCCCAACAAGG  
 AGGCTCTGGCTAAGACGGAAGTGTCTCTACGTTGACCAACAAGTTTACGCTGCCTGGTACGAGAACCG  
 AGAGATGGACGCTCGGACCATCTTACTGAATACAAAACGTTTAAATGTGGATGTCATCCGGTTCAGCCA  
 GGAGAGACCTTGACTGAAATCTAGAAAACCCAGCCACCAATGAACAGGAAGCTGAACATCAGAGGGCCA  
 TGCAGAGACGGGCTATCCGCGATGCCAAAACCCCTGACAAGATGAAAAATCAAAGCCCATGAAGGAGGA  
 TAACAACCTCAGCCTCCAGGAGAAGAAAGAGAAGATCCAGACTGGCCTAAAGAAGCTAACGGAGCTTGGG  
 ACGGTGGACCCAAAGAACAGATACCAGGAACCTCATCAACGACATTGCCAAGGATATCCGGAATCAGCGGA  
 GATACAGGCAGAGGAGGAAAGCTGAATGGTAAAACCTGCAGCAGACGTAAGTCTGCGCTGAACTCTAAGGC  
 CACCTTTTACGGCGAGCAGGTGGACTACTACAAGAGCTACATCAAAACCTGCTTGGATAACTTGGCCAGC  
 AAGGGCAAGGTCTCAAAAAGCCTAGGGAAATGAAAGGCAAGAAAAGCAAAAAGATTTCTCTGAAGTACA  
 CAGCAGCGAGGCTGCATGAGAAGGGCTCTTCTGGAGATTGAAGACCTTCAGGCAAACCAATTTAAAAA  
 TGTTATCTTCGAAATGGTCCAACAGAAGAAGTTGGAGACTTTGAAGTAAAAGCCAAGTTCATGGGAGTT  
 CAGATGGAGACTTTCATGTTGCATTATCAGGACTTGTGACGCTACAGTATGAAGGAGTTGACGTTATGA  
 AATTATTTGATAGAGCTAAAGTGAATGTCAACCTCCTGATCTTCTTCTCAACAAAAAGTTCATGGGAA  
 GTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_016721
<b>Insert Size:</b>	4974 bp
<b>OTI Disclaimer:</b>	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).
<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><a href="#">NM_016721.2</a></u> , <u><a href="#">NP_057930.2</a></u>
<b>RefSeq Size:</b>	7377 bp
<b>RefSeq ORF:</b>	4974 bp
<b>Locus ID:</b>	29875
<b>UniProt ID:</b>	<u><a href="#">Q9JKF1</a></u>
<b>Cytogenetics:</b>	7 45.68 cM
<b>Gene Summary:</b>	Plays a crucial role in regulating the dynamics and assembly of the actin cytoskeleton. Binds to activated CDC42 but does not stimulate its GTPase activity (PubMed:16968698). It associates with calmodulin. Could serve as an assembly scaffold for the organization of a multimolecular complex that would interface incoming signals to the reorganization of the actin cytoskeleton at the plasma membrane. May promote neurite outgrowth. May play a possible role in cell cycle regulation by contributing to cell cycle progression after DNA replication arrest.[UniProtKB/Swiss-Prot Function]