

## Product datasheet for **MC221826**

### Rapgef5 (NM\_175930) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rapgef5 (NM_175930) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rapgef5
Synonyms:	4932413M22; C86120; D030051B22Rik; GFR; mKIAA0277; mmr-gef; Mrgef
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221826 representing NM\_175930  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCACTGGTACTGCCAGACTCTCTCAAGAAGAATTTCTAATCCATACCTTGAACATAGTCCTTCTC  
 AGATTTATGGAGAGAATTCTTCCGTGTCAGGAAGAGCATTAAAGGAATATTATTATCCTTCAAGCAGCTGA  
 CCTGGTAAAGGACAGAGTGAATCTCAAGGGGTTTTACAGGAGAAGCTGTGTGGGGTCAGAGCTGGTCGAC  
 TGGCTCCTGGAACACTGTCCTTTGTCCAGTGTAGATCTATGGCCATTGGAGTCTGGCAGCTCCTACTGG  
 ATATGGGGATTATGTCATCCGTGGACCAACATCTATACTTTCAAGATAATTATGTTTTCTACCAGTTTTT  
 TTCGGATGAGTGCAGCTACTTGTACTGCGAATTTGAAAGAGAGGAAGAATGGCAGAAGGGAGTGAAGCTA  
 TTGCTGGAGCTTGTGCATCTCATTCTGCAAGAGCTGGCATCTGTGACCTGTCTCACCAGAAAACGGAAG  
 ACTCGGAGGAAAGCAGTGTAGATTCTTGTCTCGGCTAACATCTCGGTGCAGAGAGAGCTGGCGGCTGT  
 TATTGCTTTGAAAGCAAGAAAGTCTGCAATTGAGCAAGATGATGAAAACGCTGACAAGCATGTAACCGTG  
 ACGGAGGCTAACACCGTCCCGATCCTCAGGCTGGGGTGTGTGCAAGCTTCAAGAGAGAGATGATATCG  
 GACGTATTGAGCTGGTCCACAAGCTGGCAAGAGAAAAGTGTCAAGTTTTTACAGACAGAAAAAAGAATC  
 GGAGAAGTTGGAACAGCAAGATGATGAAGTACGATGGTTCAGGTTAAAGAGCAAGGCCAGAGTGTGCTG  
 GTGCTGAAGAAAGTAGCAAGCTGTGGCCAGCCCCACCTCAGGGAGTGGGAGAACGACGCGAGATATG  
 TGGTGGTGTCTGGTACCCCGGAGAAGATCTTGGAGCACCTTTTGAATGACTTGCACCTGGCAGAGTTCA  
 GCACAAAGAAACAGAAACTCCTTGATGACTTCTCCTCACGTACCCGATTCATGACAACTGATGAC  
 TTGTGCCAGGCGCTGCTAAGACTACTTCTGCAAGAAGTATCAAGGGGAAGAAGAAAAGTCAAGTGTCC  
 CTTGTCCGAAGCGCAAGGTCTTACATCTGGTTTCCAGTGGATTCTCTGTACAAGGACTGGCTACATGA  
 AGATGAGCATTCAAAAAATGTTTTCTAAAGACCATATACAGGAACGTGCTGGATGATGTCTATGAGTACCCG  
 ATTCTTGAGAAAGAGCTGAAAGAGTTTTCAGAAAGATACTTGGCGTGTACCGCGTACACTGTTGATGAAT  
 ACTCACACAGAGAAGAATAAAGCCCTTTTCCACCAATTCAGTCTTAAGGAGAAGTGGTCCAGCACAG  
 AGGAAGTGTGGCAGAAACAGAGGAAATTTTTGCCACGTGTATATAACGGAGCACTCCTATATCAGTGTG  
 AAGGCAAAAGTGTGAGTACAGCCAGGAGATCCTGAAGTGTGGCCGAGAAGTGCAGCGTCCGGAAG  
 AGGATCTGGCTCTGGTAGCCATTACATTCTCTGGAGAAAAGCATGAATTCAGCCAAATGACTTGGCCAT  
 TTCCAAATCCCTGGAGGCATCTGGTCCGATATATGTCTACCGAAAAGATCTGGCTGACACTTTGAATCCT  
 TTGGCAGAAAATGAGGAATCCCAGCAAAGTCAATGAGGATTTTGGGGATGAACACGTGGGACCTTGCTC  
 TGGAAATTAATGAGTTTTGATTGGAGTCTGTTCAATTCAATCCACGAGCAAGAGCTGATCTACTTCACATT  
 CAGCAGACAGGGGAACGGAGAGAATACTGTGAACCTCAGCCTTCTGCTCCAGAGATGTAACGAGGTCAG  
 CTCTGGGTAGCCACAGAGATTCTGCTCTGCAGCCAGCTAGGCAAGCGCTGCAGCTGGTGAATAAATTC  
 TCAAGATTGCAGCTCACTGCAAAGCCCAACAGAACCTAAACTCTTTTCCATCGTGTGGTCTCAA  
 CACCGCTCTGTGAGCCGGCTATCACAGACCTGGGAGAAAATCCCTGGGAAGTTTAAAGAGCTTTTCTCT  
 GAACCTTGAGAGTTTAAACGGATCCTTCCCTAAACCACAAAGCCTACAGGGATGCGTTCAAAAAGATGAAGC  
 CACCAAAAATCCCTTTTCAATGCTTAAAGATGTAACGTTTATTCATGAAGGAAATAAAACATT  
 CTTGGATAATCTCGTCAATTTTAAAAGCTGCACATGATTGCAGACACTGTCCGAACCTGAGACTGC  
 AGGACTAACCAAGTTTGAAGTACGCTGTCTCAAAGGAGCAGCAAGAGCTGAAAGTCTATGTCAACCACC  
 TGTATGTCATCGACAGCCAGCAAGCCCTGTTTCAGCTCTCTCACAGGCTGGAGCCTCGAGCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_175930  
**Insert Size:** 2445 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>	<a href="#">NM_175930.5</a> , <a href="#">NP_787126.3</a>
<b>RefSeq Size:</b>	3987 bp
<b>RefSeq ORF:</b>	2445 bp
<b>Locus ID:</b>	217944
<b>UniProt ID:</b>	<a href="#">Q8C0Q9</a>
<b>Cytogenetics:</b>	12 F2
<b>Gene Summary:</b>	Guanine nucleotide exchange factor (GEF) for RAP1A, RAP2A and MRAS/M-Ras-GTP. Its association with MRAS inhibits Rap1 activation (By similarity).[UniProtKB/Swiss-Prot Function]