

## Product datasheet for MC224989

### Dock5 (NM\_177780) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dock5 (NM_177780) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dock5
Synonyms:	1110060D06Rik; AI666732; AI956923; BC016533; E130320D18; Ir2; rlc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224989 representing NM_177780 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCCCGTTGGATCCCTACCAAGAGGCAGAAGTATGGGGTTGCCATCTACAACACAATGCATCTCAAG  
ATGTGGAGCTCCTTGCAGATCGGCGACACCGTCCACATCCTGGAGATGTATGAGGGCTGGTACAGAGG  
ATACGCGCTCCAGAACAGATCTAAAAAGGGCATTTTTCTGAGACATACATCCATTTGAAAGAGGCAACC  
GTGGAAGATGGAGGCAGCATGAGACCGTATTCCCGGGAGTTGCCCTGGTTCAGGAGCTCACAACA  
CGCTACGAGAATGGCCGTCATCTGGCGCAAGCTCTATGTGAACAACAAGGTCACACTATCCGCCAGCT  
GCAGCAAATGACATACAGTCTGATCGAGTGGCGTTCAGATCCTATCTGGGACACTTCCAAGGATGAA  
CTTGACAGAGCTGAAGAAGAAGGTCACAGCCAAAATCGATCATGGGAACAGAATGCTTGGACTGGATCTGG  
TTGTGCGGGACGACAATGGAAACATTTTAGATCCAGATGAGACCAGCACTGTCCGCTATTCAGGGCCCA  
TGAAGTGGCTTCTAAAAGGATAGAGGAAAAGATCCAAGAGGAGAAGAGCATTTTGCAGAACCTGGACTTG  
AGAGGCCAGGCAATCTTCAGTACTGTCCACACCTATGGGCTCTATGTGAACCTCAAGAACCTTGTCTGTA  
ACATTTGGGAGGATGCGGAGCTGTTTCATAGCCCTGTATGATCCAGACCAGTCCACCTTCATCAGTGAGAA  
CTACCTAATTCGCTGGGCGAGTAACGGGATGCCAAGGAGATCGAGAAGCTGAATAACCTGCAAGCAGTG  
TTCACCGACCTCAGCAGCACAGACCTCATCCGGCCAGCATCAGCCTCGTGTCCAGATTTGCCGGTGG  
GCCGATGGAGCTGAAGGAGGGCAAGAAGCACACCTGTGGCTCCGGAGGCCCTTTGGAGTAGCAGTGAT  
GGATATTAGTGATATTGTACATGGGAAGGTGGATGATGAAGAAAAGCAACATTTATCCCTTTTCAGCAA  
ATTGCCATGGAGACCTACATCCGCCAGAGACAGCTCATCATGTCCCTTGATAACCTCCACGATGATCG  
GAGAGAATGAGCCACTCACGTCGGTCTAAATAAAGTCATAGCTGCAAAGGAAGTGAATCACAAAGGACA  
AGGTCTTTGGGTGCTCTAAAGTTACTGCCAGGTGACCTCACACAGGTGCAGAAGAACTTTTCACACCTG  
GTGGACAGATCAACAGCAATAGCACGGAAAATGGGCTTTCCAGAATAATCCTGCCAGGGGATGTTTCGAA  
ATGATATTTATGTCACCCTGATCCATGGGAGTTTGACAAGGGGAAGAAGACACCTAAAACGTGGA  
GGTGACCATGTCTGTGTTTATGAGGAAGGCAACCTTTTAGAGAAAGCCATTCATCCCGGTGCTGGGTAC



[View online »](#)

GAAGGCGTCTCGGAGTACAAGTCAGTGGTGTATTACCAGGTCAAGCAACCCTGTTGGTACGAGACGGTCA  
 AGGTCTTCATTGCCATTGAAGAGGTCACACGCTGCCACATACGATTTACCTCCGACACAGATCATCTCA  
 AGAATCCAGAGATAAATCAGAGCGAGCCTTTGGGGTGGCCTTTGTGAAACTGATGAACGCAGATGGTACC  
 ACGCTGCAGGATGGGAGGCACGACCTGGTGGTGTACAAGGGTATAAAGAAAAAGAACTCCAAGCGTCCAAAAACCCATC  
 ATATCTGACTCTGCCTGGGACCAAGCAGAGCTGGAAGAAAAAGAACTCCAAGCGTCCAAAAACCCATC  
 CGTCTTACACCCAGCAAAGACAGCAGCAAGGACAGCTTTCAGATCGCCACTCATCTGCTCCACAAG  
 CTCACCCAAAAATGTGGACCTGTAGGCTTACTAACTGGCGTTCTAATTCTCAGAACATTAAGCACAAAC  
 TGA AAAAGTTAATGGAAGTGGATGGAGGAGAGATTGTTAAGTTTTTACAGGACACACTAGACGCACTTTT  
 TAACATAATGATGGAATGTCAGACAATGAAACATATGACTTCCTTGTGTTTGACGCTCTGGTCTTCATC  
 ATTTTCGCTGATAGGAGACATCAAGTTTTCAGCATTTAACCTGTCTCGAAACCTACATTTATAAGCACT  
 TCAGCGCCACCTTGGCACACGTGAAACTCTCCAAGGTAAGTACTGAACTTTTATGTGGCCAATGCCGAGGACCC  
 TAGCAAGACGGAATTGCTATTTGCTGCTTTGAAAGCCTTGAAGTACCTGTTCCGATTTCATCATCCAGTCT  
 CGGGTACTCTACTTGAGGTTTTATGGTCAGAGTGAAGATGGAGATGAATTAACGACTCAATCCGCCAGC  
 TGTTTCTTGTCTTCAACACGCTGATGGACAGGCCCTCTGGAAGAAGCTGTCAAGATCAAGGGGGCAGCCTT  
 GAAGTACCTTCCAGCATAATTAATGATGTCAAAGTGGTGTGTTGATCCCATGGAGCTCAGCGTGTCTTTC  
 TGCAAGTTCATTCAAAGCATCCCTGACAACAGTGGTGGCGGCAGAACTTAACTGCATGACCAAGATAG  
 TGGAGAGCAGCCTTTCCAGCAGGCAGAGTGCAGGGAAGTGTGCTGCCGCTACTGACAGACCAGCTCAG  
 TGGCCAGCTGGACGACCACTCAACCAAACCGGACCACGAGGCAAGCTCACAGCTTCTAAGCAACATCCTA  
 GAGGTGCTAGACAGGACGGATGTGGGCCCACTTCAGCTCACGTACAGCTGATCATGGAGAGGCTGCTGA  
 GAAGGATCAACCGGACCGTATTGGGATGAGCCGACAGTCTCCTCACATTTGGCAGCTTTGTGGCTTGCAT  
 GATTGCCGTCTTACGACAAATGGAGGACAGCCACTACAGCCACTACATCAGCACCTTCAAACCAGGCAG  
 GACATCATTGACTTTCTCATGGAACCTTCAATATGTTAAGGATCTGATTGGAAAGAATGTGTATGCCA  
 AAGATTGGATGGTCATGAACATGACCCAGAACAGAGTTTTCTCCGTGCCATCAATCAGTTGCTGAGG  
 TCTCACCAAGAGCTTCTGACCAAGGCAAGCTTTGAACTTCAGCTCTGGAACAATTACTTCCATTTGGCT  
 GTAGCTTTTCTACCCACGAGTCCCTCCAGCTTGAACCTTCTCAGAAGCCAAGCGCAACAAAATTGTGA  
 AAAAATATGGGGACATGAGAAAAGAAATGGCTTCAGGATCCGGGACATGTGGTATAACCTGGGGCCACA  
 CAAAATCAAATTCATCCCATCCATGGTGGGTCCCATTCTGGAAGTCACTCTGACCCCTGAAGTGGAGCTC  
 CGTAAAGCCAGATCCCATTTTCTTTGATATGATGCAGTGCAGTTCATTTGAGTGGAAATGGCAACT  
 TCCACATGTTGAGAATGAGTTGATCACAAGCTGGATCAGGAAGTGAAGGTGGCCGAGGAGACGAACA  
 ATACAAGTTCTTCTGAAAAGCTACTCTTAGAGCATTGCCGAAACATAAATACCTCGGAACTCTGGG  
 GAAGCCTTTGCCCTCCTGGTCAGCAGCCTTTGGAGAACCTGCTGGATTACAGAACGATCATCATACATG  
 ATGAGAGCAAGGAGAACCAGCATGAGCTGTACAGTGAACGCTCTGAATTTCTATAAAGATAAGAAAAGAGA  
 GGACATATACATACGGTATTTATACAAGCTTCGGGATTTGCACAGAGACTGTGAGAACTACACAGAACT  
 GCCTATACACTCCTCATATGCTGAGCTTCTGCAGTGGTCCGACAAGCCCTGTGTGCCCAATTTGCTGC  
 AGAGGGATAGTTACTATGTTTATACCCAGCAGGAGCTTAAAGAGAAAAGTGTATCAAGAGATCATATCCTA  
 TTTTGATAAAGGCAAAATGTGGGAGAAAGCCATCAAAGTGAAGGAGTGGCGGAGACCTACGAGAGC  
 AAAGTGTGACTACGAGGGCTAGGCAGTCTCTTGA AAAAAGAGCCTGTGTTTACGAGAACATCATT  
 AGGCCATGAGGCCCCAGCCTGAATACTTTGCTGTGGGATACTACGGACAGGGCTTCCCTTCTTCTGCG  
 GAACAAAATCTTTATCTACCGGGTAAGGAGTATGAGAGGCGGGAAGACTTCAGCTTGAAGTTGCTGACC  
 CAGTTCCCAATGCTGAGAAGATGACCAGTACCACACCAGGAGAAGACATCAAGTCAATCCCAAAGC  
 AGTACCTGCAGTCTTACGGTAAAACCTGTGATGAGCTTGCAGCCAGCTACAAGGACAAAACCGTTCC  
 AGAGCAGATCTTGAAGTACTACAGAGCCAAAGTGCAGCAGTTGAGCTATTCCCGCCATTCCGGAAA  
 GGAGAAAAAGACCCAGAAAATGAGTTTGCACCATGTGGATTGAAAGAACCACGTACAGAACGGCTATA  
 CCTTCCCTGGGATCCTCAAGTGGTTGAAAGCAAGGAGATTTAGTAGAAGAAATCAGCCCTTTGGAGAA  
 TGCCATAGAAACCATGGAGCTGACCAACGAGAGGGTGCAGCACTGCGTGCAGCAGCAGCCTGGGACCAT  
 TCTCTCTGTGCACCCGCTCTCCATGCTGCTCAGCGGCATAGTGGACCCAGCTGTATGGGGGATTCT  
 CCAACTACGAAAAGGCTTTTTTACAGAAAAGTACTTACAAGAGCATCCCAGGACCAGGAGAAGGTGGA  
 GCTGCTCAAGCGACTGATTGCCTTACAAATACCTCTGCTTACGGAAGGGATCCGCATCCACGGGGAGAAG  
 CTGACGGAGCAGCTCAAGCCGCTGCATGCCCGGCTATCTTCGTGCTTCCGTGAACTCAAGGAGAAAGTAG  
 AGAAGCTGTATGGAGTCAACGCTGCCACCCAGCATGACAGAGAGGAAGCAAGCCGTGCAGGCTCGAT  
 GGTACTGCCCTACATCCTGTCTCCACGCTGCGCAGGCTGTCTGTACCTCTGTGGCCTCCTCGGTGATC  
 TCCACCTCCTCAAACCTTCTGACAATGCATCGTCCAGGCCAGGATCGGATGGTCCATCCTGGAACCC

TGTTTGAACGCAGAGCTTCATCGGGTGCCAGAGTTGAAGATCTGCCACCCAAAGAAGACAGTGAGAACCG  
 GATTAGCAAGTTCAAGAGGAAAGACTGGAATCTGAGCAAATCACAAGTCATTGCAGAGAAGGCTCCAGAA  
 CCTGATGTGATGAGCCCAGGCAAAAAACAAAGGCCAAAGAGTCTCCAGTTGGTGGACAGCCGGCTGA  
 CACCATTCCACAGTCCCTCGCCTCTGCAGTCTACAGCCTTGAGCCCACCCCACTCACTCCCAAAGCCAC  
 GAGAACCCTAAGTCCCCATCTTGCAGACAGATGGGCTGACGGCTTCTGTCCCTCCTCCACCTCCCCC  
 AAAAGCAAACCGTATGAGAGCAGTCAGAGGAACTCGGCTGAGATTGCTCCCCACTGCCTGTCCGGAGAG  
 ACTCCAAAGCCCCACCTCCACCCCTCCAAAGGCTCGGAAATCAGGCATCCTCTTCTGAGCCAGGCTC  
 TCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_177780
- Insert Size:** 5607 bp
- 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:**
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\\_177780.3](#), [NP\\_808448.2](#)
- RefSeq Size:** 10335 bp
- RefSeq ORF:** 5607 bp
- Locus ID:** 68813
- UniProt ID:** [B2RY04](#)
- Cytogenetics:** 14 D1
- Gene Summary:** Guanine nucleotide exchange factor (GEF) for Rho and Rac. GEF proteins activate small GTPases by exchanging bound GDP for free GTP (PubMed:18396277). Along with DOCK1, mediates CRK/CRKL regulation of epithelial and endothelial cell spreading and migration on type IV collagen (By similarity).[UniProtKB/Swiss-Prot Function]