

Product datasheet for MC225101

Dock4 (NM_172803) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Dock4 (NM_172803) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Dock4 |
| Synonyms: | 5330406C03; 6330411N01Rik; AF263288; C030023J22; mKIAA0716 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >MC225101 representing NM_172803 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGATACCTACGGAGCACGAGAAATACGGCGTGTTATTGCCAGCTTCGAGGCACCGTCCCGTACG
GCCTGTCATTGGAGATCGGAGACACTGTTCCAGATCCTGGAGAAGTGCACGGCTGGTACAGAGGATTTGC
CTTAAAAAATCCCAACATCAAGGGTATATTTCTCCAGCTATGTTCACTTGAAAAATGCCTGTGTAAG
AACAAAGGACAATTTGAAATGGTTATTTCCCACTGAAGATTCTGTTATCACCGAGATGACATCAACTTTAA
GGGACTGGGAACCATGTGGAACAGCTCTATGTCAGAAATGAAGGGGATCTCTCCATCGCTGTGGCA
CATCATGAATGAAATCCTCGATCTGCGACGGCAGGTGCTAGTTGGCCATCTCACCCATGACAGGATGAAG
GATGTGAAGCGCCACATTACTGCCGACTGGATTGGGAAATGAACAACTGGGACTAGACCTGGTGCCTA
GGAAGGAGTACGCAATGGTAGACCCAGAGGACATCAGCATCACTGAGCTGTACCGACTGATGGAACATCG
ACATCGGAAGAAAGACACCCCTGTGCAGGCCAGCAGTACCACCTCTTTGTCCAGATGAAGAGCCTCATG
TGTTCCAACCTGGGAGAGGAGCTAGAGGTATCTTCTCACTCTTTGACAGCAAAGAGAATCGCCCAATCA
GTGAGAGATTTTCTTGAGACTGAATAGAAATGGGCTTCCCAAAGCCCGGATAAGCCTGAAAGACACTG
TTCTCTCTTTGTGACTTGGGTAGCAGTGAACCTCAGGAAGGACATCTACATTACCGTGCACATTATCCGA
ATTGGTCGAATGGGAGCAGGAGAGAAAAAGAATGCCTGCAGTGTTCAGTACCGGGACCTTTTGGCTGTG
CAGTCCCTTAGCATTGCAGATCTCCTCACCGGAGAGACAAAGGATGACCTGGTCTGAAAGTGTACATGTG
TAATACAGAGAGCGAGTGGTACCAGATCCACGAGAACATCATCAAGAAGCTGAATGCGCGCTATAATTTG
ACTGGCTCCAATGCAGGATTAGCAGTTTCCCTCCAACCTGTTACACGGAGACATTGAACAGATCAGAAGAG
AATACTCCTCAGTGTCTCTCACGGAGTGTCCATAACGCGGAAGCTGGGTTTTTCTGACATTATCATGCC
TGGTGAATGAGGAATGATTTATATACACCGTAGAAAGGGGGAAATTTGAGAAAGGAGGCAAGAGTGTG
GCCAGAAATGTGGAAGTTACAATGTTTCATTGTAGACAGTAATGGTCAGCCCTTAAAGGATTTTATCTCT
TTGGCTCTGGAGAGCCACCGCTAGTGAGTACCCTCTTTGTGCTCTATCATAACAACAGTCCCAGGTG
GTCAGAGCTGCTGAAACTTCTATTCTGTGGACAAATCCGGGGCTCCACATCCGCTTTGAGTCCGG



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CATTGTTCCACAAAGGAGAAAGGAGAAAAGAAGTTGTTTCGGTTTCTCTTTTCGTGCCCTGATGCAAGAAG
 ACGGAAGGACTCTCCAGATGGCACACACGAGCTCATCGTGCATAAGTGTGAAGAAAACACAAACCTTCA
 GGATACTACCCGCTACCTCAAGCTCCCATTTTCCAAGGTCATCTTCTTGGGAACAATAATCAAACCATG
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 CGATGGCTCAGAGATAGTAAAGTTTCTCCAAGACACACTGGATACCTTGTGGAAATATTAGATGAAAT
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 ACAAGAGAGCAAAGGGACTGGAGCTTTATCTCAGTCGACAGGCTGTGTTCTTGGAGCTCCTTCCAGCTGTG
 TACTCAGAAGTGTGAAGCTCTTGTATGTCGGGAAGTGGCCAACTTGGTCCAGGACACCCTGGGCAGCC
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 GGCAAAGGTGATGAAACGTACCGTGAAGCTCTTCAACAGTATAATTCCACTATTTGGTCCCTACCCTAGTC
 TACTAAGAAAATGAGCGGAAACATGGAGGGAAAGTGGCGTTTCAATTAATGCCACTGTCAGTCCGGCT
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 GCTGCTGGAGTGGTCTGATCGGCCCTCAGGGAGTTCTGACCTACCCCATGCAGACCGAATGGCAGCGC
 AAGGAGCACCTGCACCTCACCATCATCCAGAACTTCGACCGAGGCAAAATGTTGGGAGAATGGCATTATCT
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 GGAAGCCTCCTTGATGACAAAATCATGGACCAGCAGCGCTGGAACCTGAATTTCTCAGAGTTGGATTT
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 TGGAGGCCTTCCAACAGCGAATGCTGAACGAGTCCCCCATGCCATGCCATGCAGCATGCCAACACGCC
 CGACGAGACCATCTTCCAGGCAGAGGCTCAGTATTTACAGATATATGCTGTGACTCCCATTCCAGAGAGC
 CAGGAGGTACTGCAGAGAGAGGGGGTCCCAGACAACATCAAAGCTTCTATAAAGTGAACCACATTTGGA
 AGTTCCGCTACGACAGGCCATTCCACAAAAGCGCAAAAAGACAAGGAGAACGAATTCAGAGTCTCTGGGT
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 GAAGTGGTAGAGATGAGTCTCTGGAAAACGCCATCGAAGTGTAGAAAACAAGAACCAGCAGCTGAAGA
 CCCTGATCAGCCAGTGTGACAGCAGGAGATGCAGAAATCAACCCCTTGACCATGTGCCTCAATGGAGT
 CATAGATGCTGCAGTGAACGGTGGGTCTCCAGGTATCAAGAGGCATTCTTGTCAAAGACTATATTTTA
 AGTCATCCTGAAGATGGGAGAAGATTGCACGGTTAAGAGAATGATGCTTGGAGCAGGCACAGATTCTGG
 AATTTGGGCTGGCCGTGCACGAGAAGTTGTACCTCAAGATATGAGACCCCTTCAAAAAAAGTGGTGG
 CCAGTTCTTTGTGATGAAATCGAGCTTTGGGATACAGGAGTTCCTGCTTGTATCCAGGCCAGCCCTGTC
 CATTTTCCAATGGAAGCCCTCGTGTGTGTAGAAACTCAGCCCCTGCTTCCATGAGTCCAGATGGTACCA
 GGGTAATCCCTAGACGCAGCCATTAAGTTACCCAGCTGTCAACCCGATTCTCTGCTCTCGCTGTCTCTC
 ACAGGCCCTGCTGAAAGTAAAGCAATATTACAGGGCAATCAGAAAGCTCTGATGAAGTCTTTAACATGCAG
 CCCAGTCCGCTACCTCAAGCCTGAGTTCACACTCTGCTTACCTAATGTGACCAGTTCTGCTCCGT

CGAGTGCCAGAGCTTCGCCTTTGTTGTCTGACAAACACAAACATTCCAGAGAAAACCTTTGCCTGTCCCC
 AAGAGATAGACCGTGCAGTGCCATTTACCAACACCCGTGGAGCCTTCTCAGAGGATGCTGTTTAATCAT
 ATTGGAGATGGGGCCTTGCCCTCGAAGTGACCCCAACCTTTCTGCACCTGAGAAAGCTGTGAATCCCACCC
 CTAGCAGCTGGAGCCTGGACAGTGGGAAAGAAGCCAAGAACATGTCCGACAGTGGGAAACTTATCTCTCC
 CCCTGTCCCTCCAAGGCCACACAGACTGCTTCGCCAGCAAGACACACCACATCAGTGTCCCCCTCGCT
 GCTGGACGTTCTCCATTGAAGGGCTCCGTACAGTCCTTACCCCCATCTCCAGTGGAGTACAACTCCCCAG
 GACTGAGTTCAAATTCGCCAGTCTGTCCGGCAGCTACAGCAGTGGGATTCCTCGCTTAGCCGGTGTAG
 CACGTCCGAAACCTCGGGCTTTGAAAACCAAGCCAATGAACAGTCAAGTGCCTGTGCCGGTCCCGGTGCCG
 GTGCCGGTGCCCGTGCCAGCTTACAGCGGGTCCGAGGAACCTGTACGCAAGGAGAGCAAAACCCACCCC
 CCTACAGTGTCTACGAGCGGACTCTGCGGCGCCCTGTCCCGCTACCTCACAGCCTCTCCATCCCTGTAC
 CTCTGAGCCACCTGCTCTGCCCCCAAGCCCTTGGCTGCGCGGTCCAGCCACCTGGAGAATGGGACCCGT
 AGGACTGAGCCTGGCCCTAGGCCAGGCCCTGCCCGTAAGGTGTCTCAGCTA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_172803
- Insert Size:** 5937 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_172803.2](#), [NP_766391.2](#)
- RefSeq Size:** 8072 bp
- RefSeq ORF:** 5937 bp
- Locus ID:** 238130
- UniProt ID:** [P59764](#)
- Cytogenetics:** 12 18.06 cM
- Gene Summary:** Involved in regulation of adherens junction between cells. Plays a role in cell migration. Functions as a guanine nucleotide exchange factor (GEF), which activates Rap1 small GTPase by exchanging bound GDP for free GTP (By similarity).[UniProtKB/Swiss-Prot Function]