

Product datasheet for **MC229340**

Plekhg5 (NM_001285999) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plekhg5 (NM_001285999) Mouse Untagged Clone
Tag: Tag Free
Symbol: Plekhg5
Synonyms: BC023181; Syx
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229340 representing NM_001285999
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGACAGGACCGGGCGTCTCCGGGCGCCGAGCAGCAGCCAGGCCAGCTCTGAGCTACCTCCCCAG
 ACTCCCAGCTCCTCTGGGTGGGGTTCATGCCACAGCAGCGACAGCCAGGTATGCCATCATGCCACTG
 CCAGCAGCTGCACCACCGGGGCTCTCAACCTGTGTGAGACCTGTGATAGCAAGTTCACAGCACCTG
 CACTACGACGGCCATGTCCGATTTGACCTGCCCCGCAAGGCTCTGTCTGGCCCGGAATGTTCCACCC
 GGTCTGTCTCCCCGACCCAGCCCTGTGTCAGACCTGGAGGAAGAAGAGGAAGGCTGTACCGACGGAAA
 AGGGGACCGGAAGAGCGCCGGCCTAAAAATCTCTAAGAAGAAAGCAAGGAGGAGACACAGATGACCCG
 AGCAAGGAGTGCTTACCTTGAATTTCGACCTGAACGTGGACATCGAAACAGAAATTGTGCCAGCCATGA
 AGAAGAAGTCACTGGGGGAAGTACTGCTGCCTGTGTTGAGAGGAAGGGCATCGCACTGGCAAGGTAGA
 CATCTACCTGGATCAATCCAACACACCCCTGTCCCTCACCTTCGAGGCCACAGGTTTGGAGGACTAC
 CTGCGGGTCAAAGCCAAGCCGGGGACGAGGGCAAGGTGGAGCAGGAGTGAAGGATCCAAGTCCCTCA
 GTCTGCCAGCCCTGAGGCCAGTGGGGCTGGGCCCTGTGTCGGAACGTGTGGACCTCAGAGCCGCCG
 AGAGAGCAGTCTGGACATCTTGGCCCTGGCCCGCGTCAAGAACATGTCTGAATTCCTGGGAGAGGCA
 GGATCCCTGGACACGAGCCCCCGCACCTTCCAGCTGTTCTCTGCCCGTTGGCAGCAGTGGGGTACCA
 GCAGTGGCATCAATGAGAGCTGGAAGAACCGGGCAGCCAGTCGCTTCAGCGGCTTCTTACGCTCCAGCCC
 GAGCACCAGTGCCTTTAGCCGGGAGGTAGACAAGATGGAACAGCTGGAGAGCAAGCTCCATGCCTACAGC
 CTTTTCGGGTACCCCGGATGCCAGGAGGCTGCGCTTTGACCATGACTCCTGGGAGGAGGAAGAGGAAG
 ATGACGAGGAGGATGAAGAGAGTTCAGGCTGAGGCTGGAGGACAGCTGGAGGGAGCTCACTGATGGCA
 TGAGAAGTGAACAGGCGCAGTCCACCAACAGGAGGAGTGTGGAACTCCTCCACACAAGTCTCC
 TACATCCGAAACTACGTGTGATCACAACCTGTTCTGTGTTGTTCTTAACCTACAAGAGTCGGGGC
 TCCTGTGTGAGGTTGAGGCTGAGCGCTTGTTCAGCAACATTCCTGAGATCGCAAGCTACACCGCGCTT
 GTGGGGCAGCGTGTGTTGCCAGTGTGGAGAAGGCGCGGCGGACGCGGGCGCTGTGCAGCCAGCGAC
 TTTCTCAAAGGCTTCAAGATGTTCCGGCTCACTTCAAGCCATACATCCGATACTGTATGGAAGAGGAGG



GCTGCATGGAGTACATGCGCGGCCTGCTGCGTGACAACGATCTGTTCCGGGCATACGTCACGTGGGCGGA
 GAAGCACCAGCAGTGCCAGCGGCTGAAGCTGAGTGACATGCTGGCCAAGCCCCACCAGCGGCTACCAAAA
 TACCCACTGCTGCTCAAGTCGGTGCTAAGGAAGACAGATGATCCCCGCACCAAGGAAGCCATCGTCACCA
 TGATCAGCTCGGTGGAACGCTTCATACACCACGTGAACACGTGCATGCGGCAGCGGCAGGAGCGGCAGCG
 CCTGGCGGGGGTGGTGAAGCGGATCGATGCCTACGAGGTTGTGGAGGGCAGCAACGACGAGGTGGATAAG
 CTCCTGAAGGAATTTCTACATCTGGACCTGACAGCACCCATGCCTGGAACCTCCCCTGAAGAGACCCGAC
 AGCTGCTGCTGGAAGGGAGCCTGAGGATGAAGGAGGGGAAAGATAGCAAGATGGACGTGTACTGCTTCCT
 CTTCACTGACCTACTCTTGGTGACCAAGGCCGTGAAGAAAAGCAGAGAGGACGAAGGTCATCAGGCCACCG
 CTAAGTGGTGACAAGATTGTGTGCCGGAACTTCGGGACCCTGGTTCCTCCTCCTCATCTACCTGAATG
 AATTCCACAGTGTGTGGGGGCCTACACTTTCCAGGCCAGCAGCCAGGCCTTGTGCCGGAGCTGGGTGGA
 CACTATTTACAACGCACAGAACCAGCTGCAGCAGCTGCGTGCACAGCTCAGTGCACAGGAGCAGCCAGGC
 AGCCAGCATCTGCAGAGCCTGGAAGAGGAGGAAGATGAGCAGGAGGAGGAGGGTGAAGAGAGCGGTACCT
 CAGCTGCCAGCTCCCCACCATCCTTCGAAAGAGCAGCAACAGCCTCGACTCTGAGCACTGCACCTCAGA
 TGGCTCCACGGAGACCCTGGCCATGTTGTGGTAGAGCCTGGGGCAGACTGTCTTCCCGGAGTTTGAA
 GGCGGTCCCGTCAGCTCCAGTCGGACGAATCTTCTCTCAGTAACACTGCTTCTCTGTCACTCCCACCA
 GCGAGCTGCTGCCCTGGGCCCTGGATGGCCGCTCCTGCTCCATGGACTCCGCTATGGCACCCTGTC
 CCCCACCTCCCTCAAGACTTTGTGGTCCACACCCCGTGGTTCGAGCCAGCGCCTGTGCCTCAGACCCCC
 TCTCCCCAGCCCTCACCCCGCTCCGCCGTCGACTCCTGTCCAGCTGCTCCCTCGCCCGCCCGCCTGC
 TCAAGTCCAAATCGGAGGCTAGCCTCTTACAATTACTGTGAGAAACCCAGCCGCGCCGTGGCGTGCCTCC
 GGCTCCCAGCCGAGCCTGTGAGAACTGTGCTGATCTCTGTGGCCCTGGGGTTAGGACTCAGCGCCCC
 CTTGAGAAAGGTGGTCTGGCTGGAATGGTCCAGGGATGTGTGACCCCTGCCATGGCCCTCAGTTGTCAG
 AATCTGAGAACAGACCTAGCCACATGACGGGGGACCTGCAGATTCTGCCGAAGGAGATGCAGAGAGAT
 GCCTTCTGGGACTATGTCCAGGGTGCAGTCTGAGCCTCCCTCAGGGGTCTCTGCTCAACACAGGAAGCTG
 ACCCTGGCCCAGCTCTACCGGATCAGGACCACCTGCTGCTCAACTCCACGCTCACTGCCTCGGAGGTGT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001285999

Insert Size:

3222 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).

OTI Annotation:

Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001285999.1](#), [NP_001272928.1](#)

RefSeq Size: 3873 bp

RefSeq ORF: 3222 bp

Locus ID: 269608

UniProt ID: [Q66T02](#)

Cytogenetics: 4 E2

Gene Summary: This gene encodes a protein belonging to the Rho guanine exchange factor (GEF) family of proteins, which activate GTPases by replacing GDP with GTP. This family member is a RhoA GEF that plays a role in endothelial cell migration and tube formation. It is required for angiogenesis and may function in neuronal cell differentiation. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Oct 2013]
Transcript Variant: This variant (1, also known as Syx1) represents the longer transcript and encodes the supported protein. CCDS Note: The coding region has been updated to represent an alternative splicing pattern that is more supported by the available transcript and protein data.