

Product datasheet for **SC106144**

PLEKHM2 (BC008002) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PLEKHM2 (BC008002) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PLEKHM2 |
| Synonyms: | KIAA0842; novel RUN and PH domain-containing protein; pleckstrin homology domain containing, family M (with RUN domain) member 2; RP11-169K16.1; SifA (Salmonella-induced filaments A) and kinesin-interacting protein; SKIP |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for BC008002, the custom clone sequence may differ by one or more nucleotides

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GATGGTCCATTCTCGGAGTTGAGAGTAGACAACAATCACCTGCTCCTGCTCATGATCCACGTGTTCCGA
GAAAAAGAGAGCAGCTGTTCAAATGATCCGGATGAGCACCGGGCACATGGAGGGCAACCTGCAGCTGC
TGTACGTGCTGCTCACAGACTGCTATGTCTACCTGCTCCGAAAGGGGCCACAGAGAAGCCATACCTGGT
GGAAGAGGCCGTTTCTTACAATGAACTTGACTATGTGTCGGTTGGCCTTGACCAGCAGACGGTGAAGCTG
GTGTGCACCAACCGCAGGAAGCAGTTTCTGCTGGACACGGCTGATGTGGCGCTGGCTGAGTCTTTTTGG
CTTCTTTGAAGTCAGCCATGATCAAAGGCTGTCGAGAACCTCCCTACCCAGCATCCTGACGGATGCCAC
CATGGAGAAGCTGGCACTGGCCAAATTTGTGGCCCAAGAATCGAAGTGTGAGGCATCTGTGTACCCTG
CGTTTCTACGGCCTTGTGCACTGGGAGGACCCACAGACGAGTCCCTGGGCCACGCCCTGCCACTGCT
CACCCCGAGGGCACCATACCAAAGAAGGCATGCTGCACTACAAGCGGGCACCTCTACCTGGGCAA
GGAACACTGGAAGACGTCTTCGTGGTGTCTCAGCAACGGGATCCTCTACCAGTACCCGGACCGCACCGAC
GTCATCCCTCTGCTCTCGGTGAACATGGGGGGGAGCAGTGCAGTGGCTGCCGGAGGCCAACACCACGG
ATCGGCCCCACGCCTTCCAGGTATTCTCTCCGACCGGCCTGCCTGGAGCTAAGTGCCGAGAGCGAGGC
CGAGATGGCCGAGTGGATGCAGCATCTCTGCCAGGCTGTGTCAAAGGGGTATCCCCAGGGCGTAGCT
CCCAGCCCTGCATACCTGTGCTGCTGCTCCTCACGGATGACCGCCTCTTTACGTGCCATGAGGATTGCC
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CAAGGAGTACTGCGTCTTGGAGTCTCCAGGACAGCCAGCAGCTCTCCCGCCTGGGTGATCTACCTG
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CAGCGCCTGGCAGCGGAGCGACAGTCTCTGCCGCGCCGAGCCTCCCGAGACCCCTGGTGTGAGGCAGA
GCTGGTTGGCGTCCCTGGTGGGCAGGAAAGGAAGGCACGCCAGCCGGCAGGCACACTGTCACGGCTGTTG
TCATGCTGTGCGGAGCCTACAGTCCACCCTGCCCTGGGCGGCAGAACCCGAGTGTGGCTTAAGACAG
GGTCCCTCCACTCCAGGGATCCAGATCAGGTGCCCGCACCCCTGGGCATCCTGCCCGACAGGTAGCGAA
TGGAGGTGCTGGGGCAGAGGGTCCGAGCCCTGTGGGCTCTGCGGATGCACGCCCTCTCCCGGCCCTC
CGCCTCAGTCTGCAGAAATTTCTGCCGAGTGGCACCGAGAACCACCATCCATCTAAGGACGAACAAAAGAAC
CAGGAGGGCGGGACCCCTCTTCTCTCCTGGGTTGGGGCTGGGGCCCTGAGTGCCAGCCATCCTTG
TTCGTGTTTGAACACTCTCCTGGCCACGTGGGGAAGCGGGAACACGGGGTGTCTGCGCATGTTTCTCCT
CCTAGCTCCATCACTGCGCACACAGCTGCCTGCCTCGCCAGATGCAGGGGGCGGGCAGCCCTCCCTGGC
TGCCAGGAGGCTCTGCATGCCACAGTCCCTGCCCTGCCTGTCCCTCAACCCGGCAGTGCCTGTAGCACC
GAGGAGCAAAGGGGGTGGATGGGGGGCTTGAGAGAAGGGCGGAGCCACCAGCCTGGCATCCATGTTGACA
TCTTCTGACTGTCCCCTGCTTGGCTGGAGCCAGGCCCTTCCCTAGAGTTTCGTCAAGAGCCTCTGGGGA
AGGGGTCAGGTGGTTTGGGTTTTGTTTTTAAAAATAAAATAGACATGTTATTTGCAAAAAAAAAAAAAA
AAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for BC008002 unedited
CACATTTTGTATACGACTACTATAGGCGGCCGCGAAATTCGCACGAGGGGACCCAGGAGG
TTCTCTGCCAGCTCAAGCGAGACCAGCCAGCCCGTGTCTGAGTAGCGCTGAGGATTCTG
GGGTGGATGAGGGACAGGGGAGCCCTTCGGAGATGGTCCATTCTCGGAGTTCAGAGTAG
ACAACAATCACCTGCTCCTGCTCATGATCCACGTGTTCCGAGAAAACGAAGAGCAGCTGT
TCAAAAATGATCCGGATGAGCACCAGGGCACATGGAGGGCAACCTGCAGCTGCTGTACGTGC
TGCTCACAGACTGCTATGTCTACCTGCTCCGAAAGGGGCCACAGAGAAGCCATACCTGG
TGGAAGAGGCCGTTTCTTACAATGAACTTGACTATGTGTGCGTTGGCCTTGACCAGCAGA
CGGTGAAGCTGGTGTGCACCAACCGCAGGAAGCAGTTTCTGCTGGACACGGCTGATGTGG
CGCTGGCTGAGTCTTTTTGGCTTCTTTGAAGTCAGCCATGATCAAAGGCTGTCGAGAAC
CTCCCTACCCAGCATCTGACGGATGCCACCATGGAGAAGCTGGCACTGGCCCAAATTG
TGGCCCAAGAATCGAAGTGTGAGGCATCTGCTGTACCGTGCCTTCTACCGNCTGTGC
ACTGGGAGGACCCACAGACGAGTCCCTGGGCCACGCCCTGCCACTGCTACCCCCC
GAGGGCACCATCACCAAAGAAGGCATGCTGCACTACAAAGCGGGNCACCTTCTACCCTGG
GCAAGGGACACTGNGAGACGTGCTTCGTGGTGTCTAGCAACGGGATCCTTTACCAGTACC
CGGACGCACCGAGCTNATCCTCTGCTCTCGTAAAATGGGGGGGAGCATCGGGGGCTG
CCGAAAACAACACCAGGACGGCCACCCTCCAGTATTCTTTCCACGGCCTGTCTGGACT
AATGCCAAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for BC008002 unedited
TTTTATGGTACCGCGCCGATTCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTGGCAAATAACATGTCTATTTTATTTTAAAAA
ACCCAAACCACCTGACCCCTTCCCAAGAAGGTTTTGACCAAACCTTTGGGAAGGGCCTG
GCTCCCGCCCAACAGGGGACAATCAAAAAAAGTTTACTTTGATGCCAGCTGGGGGGCTC
CCCCCTTTTTCAAACCCCCATCCACCCCTTTTGTCTCGGGGTACAAGCACTGCCCG
GTTGAGGGGACAAGCCAGGCAAGACTGTGGGCAATCCAAACCTCCTGGCAACCAAGGAGG
GCTGCCCCCCCCTGCATTTTGGGAAGCAAGCAACTTTGTGCCCTGATGGAGCTTGG
AAGAAGAAACATGCCCAACACCCCGTGTTCCTTTCCACGTGGCCCGGAAAGTGT
TAAACACCAACAAGGTGGTGGGCACTCAAGGGCCCCGCCCCACCCAGAAAAGAAA
AAGGGGTCCCCCCCCCGGGTCTTTTGTCTCCCTAAAAGGAAGGGGTCTCGGGG
CACTCCGCAAAAATTTTCAAACCTAAGCCGAAGCCCCGGAAGAAGGCGTGCATTCAG
AACCCACAAGGGTGGGCCCTCTGGCCCAACGAACCTCATTGGCTAACTGTTTGGCAA
GAAGCCCCAGGGTGCCGGGCACTGATTTTATTCTGGAGTGGAGGACCCTGTCTTAA
CCACACTCGTGGGTCTGCCCCCAAGCAAGTTGGACTGTAGCTTCCCAACTGAAACC
ACCCTGAAATGTGCTGCCGCTGGGGTGCCTTCTTTCTGCCCCAGGGACCAACAATTT
GCTTTAACAGGGTTTTGGAGGCTCCCCGCAAAAACCTCC

Restriction Sites:

NotI-NotI

ACCN:

BC008002

Insert Size:

2500 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).

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|-------------------------------|---|
| Reconstitution Method: | <ol style="list-style-type: none">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: | <u>BC008002.1</u> , <u>AAH08002.1</u> |
| RefSeq Size: | 2176 bp |
| RefSeq ORF: | 2176 bp |
| Locus ID: | 23207 |
| Cytogenetics: | 1p36.21 |
| Domains: | PH |
| Protein Families: | Druggable Genome |
| Gene Summary: | <p>This gene encodes a protein that binds the plus-end directed microtubule motor protein kinesin, together with the lysosomal GTPase Arl8, and is required for lysosomes to distribute away from the microtubule-organizing center. The encoded protein belongs to the multisubunit BLOC-one-related complex that regulates lysosome positioning. It binds a Salmonella effector protein called Salmonella induced filament A and is a critical host determinant in Salmonella pathogenesis. It has a domain architecture consisting of an N-terminal RPIP8, UNC-14, and NESCA (RUN) domain that binds kinesin-1 as well as the lysosomal GTPase Arl8, and a C-terminal pleckstrin homology domain that binds the Salmonella induced filament A effector protein. Naturally occurring mutations in this gene lead to abnormal localization of lysosomes, impaired autophagy flux and are associated with recessive dilated cardiomyopathy and left ventricular noncompaction. [provided by RefSeq, Feb 2017]</p> |