

## Product datasheet for **SC210462**

### PLEKHM2 (NM\_015164) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones

**Symbol:** PLEKHM2

**Synonyms:** SKIP

**Mammalian Cell** Neomycin

**Selection:**

**Vector:** pMirTarget (PSI00062)

**ACCN:** NM\_015164

**Insert Size:** 865 bp

**Insert Sequence:** >SC210462 3'UTR clone of NM\_015164  
The sequence shown below is from the reference sequence of NM\_015164. The complete sequence of this clone may contain minor differences, such as SNPs.  
Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGCCGAGCCTCCCGAGACCCCTGGTGTGAGGCGAGCTGGTTGGCGTCCCTGGTGGGAGGAAAGGAA
GGCAGGCCAGCCGGCAGGCACACTGTCACGGCTGTTGTCTGCTGCGGAGCCTACAGTCCACCCCTG
CCCTGGGCGGCAGAACACCGAGTGTGGCTTAAGACAGGGTCCCTCCACTCCAGGGATCCAGATCAGGT
GCCCGGCACCCCTGGGCATCCTGCCCGACAGGTAGCGAATGGAGGTCGCTGGGGGCAGAGGGTCCGAGC
CCTGTGGGCTCTGCGGATGCACGCCCTCCTCCCGGCCTCCGCTCAGTCTGCAGAATTTCTGCCGAGT
GGCACCAGAAACACCATCCATCTAAGGACGAACAAAAGAACAGGAGGGCGGGACCCCTCTCTCTCT
CCTGGGTTGGGGCTGGGGCCCTGAGTGCCAGCCATCCTTGTCTGTTGAACACTCTCTGGCCAC
GTGGGGAAGCGGGAACACGGGGTGTCTGCGCATGTTTCTCTCTCTAGCTCCATCACTGCGCACACAGC
TGCTTGCCTCGCCAGATGCAGGGGGCGGGCAGCCCTCCCTGGCTGCCAGGAGGCTCTGCATGCCACA
GTCCTGCCCTGCCTGTCCCTCAACCCGGCAGTGCCTGTAGCAGGAGGAGCAAAGGGGGTGGATGGGG
GGCTTGGAGAAGGGCGGAGCCACAGCCTGGCATCCATGTTGACATCTTCTGACTGTCCCTGCTTGG
CTGGAGCCAGGCCCTTCCCTAGAGTTTCGTCAAGAGCCTCCTGGGGAAGGGTCAGGTGGTTGGGTTT
TGTTTTTTAAATAAAATAGACATGTTATATTGCCAA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI



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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b> | Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Components:</b>     | The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Note:</b>           | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq:</b>         | <u><a href="#">NM_015164.4</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Summary:</b>        | 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] |
| <b>Locus ID:</b>       | 23207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MW:</b>             | 30.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |