

Product datasheet for SC121271

PLEKHM1 (NM_014798) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEKHM1 (NM_014798) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLEKHM1
Synonyms:	AP162; B2; OPTA3; OPTB6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121271 sequence for NM_014798 edited (data generated by NextGen Sequencing)

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ATGCTTTTCAGTGGTGGAGAATGGACTGGACCCCCAGGCTGCCATCCCGGTTCATCAAGAAG
AAGCTGGTGGGATCCCGTGAAGGCCTTGCAGAAGCAGTACGTGCCCTGGACACGGTGGTC
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ATCATCTCAGAGTTGGAGCACCTGACGTTTGTCAACACGGATGTGGGCCGCTGCCGGCA
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GAGCAGGCCCGCTTGCATGAGTACTACCAGCCCACCGCCCTGCTCCGGGATGCTGAGGAG
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TCCCCAGGAAGAAGGCAAGCCCAGGCAGCCCCATCCCAGGGGCATAAGAGCTTCCGGGTG
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 CCCCCTGTGCCCGCCGCAAGTACCAGGAACAGAACATTTTCGCTGA

Clone variation with respect to NM_014798.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014798 unedited
 TATAGGCGGCCGCGATTTCGGCACGAGGGCCGGGAGCCCCCTCGCTCGCTCCTCGCTC
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 AACCCCAATAACTTCTATCAGGGGACTCCAAAATAAAGCCTGGTCTCCACAGCCTTTTCT
 CAAAACAAAAAAACTCTTCTTGGGCGTAAACCACCCGTTGCCTTTCCAAAAAAG
 GAACCCAGCGCCCTTCCAGGGCATAAATCCAGGGGCCAA

3' Read Nucleotide Sequence: >OriGene 3' read for NM_014798 unedited
 NATTCCTTGNCCGCGCCGCATTGTTTANGATCGGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTGAAAAAAGATGGGAAAAACCCACCTTAAAAAACAGACCTT
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 TGCCCCAACAGGGAGCATTTGGGGGGGCCACGCCTCCTGCAACAAAGGGTGGGGGA
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 AGGAAACCCAGCTGGGATGGCTGAGCCACACTACCCCCGGCCTTCAAAGTGGGATCAGC
 AGAGGGGCATCAGGCGAAAACGTTCTGTGCTGGTACTTGCCTCAGCAGCACAGCGGGG
 GCAGCCCTTCTTACCACAGCCTGGCAGCTCTGGGGGAAGAAGGCTTTCACCTTGGCACA
 CCTGACTGTGGTGGCAAACCCACAGGGGAAAACGATGCCCTGGCCCCGTCAAACCGGCA
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 CCACGGCCTTGAGAATTCTTCATACCCCTTTTTGCCACCGTCCGGAGCCACCTCACCGCA
 CCCCTGTGAAACTCCCCTAAATATTCCGGCGGCCTACCCTTTTTGCTCACCTCTTTCC
 CCGCGCAATTCCGGACAGGCCCTTTATTCCCCCCAAACCTCACCCGTTCCACGCTCA
 CTTACAGGCCCTTCTCTTCTAACCTCCTCCACAAACTCGTCCCAT

Restriction Sites: NotI-NotI

ACCN: NM_014798

Insert Size: 3270 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_014798.1](#), [NP_055613.1](#)

RefSeq Size: 5277 bp

RefSeq ORF: 3171 bp

Locus ID: 9842

UniProt ID: [Q9Y4G2](#)

Cytogenetics: 17q21.31

Gene Summary:

The protein encoded by this gene is essential for bone resorption, and may play a critical role in vesicular transport in the osteoclast. Mutations in this gene are associated with autosomal recessive osteopetrosis type 6 (OPTB6). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.