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Product datasheet for SC125025

POM121 (NM_172020) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POM121 (NM_172020) Human Untagged Clone
Tag:	Tag Free
Symbol:	POM121
Synonyms:	P145; POM121A
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_172020, the custom clone sequence may differ by one or more nucleotides

ATGGTGTGTAGCCCAGTGACTGTGAGGATCGCCCCTCCTGACAGAAGATTTTCGCGTTCTGCGATACCAG
AGCAGATAATCAGCTCAACACTGTCCTCACCATCAAGTAACGCCCCAGACCCATGTGCAAAGGAGACAGT
ACTGAGTGCCCTCAAAGAGAAGGAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAATATTCCTTGATGGC
CAGGAAAATAAAAGAAGGCGCCATGATAGCAGTGGCAGTGGACATTCAGCATTTGAGCCCCTGGTGGCCA
ATGGAGTCCCCGCTTCTTTTGTGCCTAAGCCTGGGTCTCTGAAGAGAGGCCTCAATTCTCAGAGCTCAGA
TGACCACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGGCGCTTACGCAAGTGGCATC
CCTAGCTCCAGCCGCAATGCCATTACCAGTTCCTACAGCTCCACTCGAGGCATCTCACAGCTCTGGAAGA
GAAATGGCCCCAGTTCATCACCCTTCTCTAGCCCAGCCTCCTCCCGCTCCCAGACACCGGAGAGGCCAGC
AAAGAAAATAAGAGAAGAGGAGCTGTGTCATCATTCCAGTTCTTCAACTCCATTGGCAGCAGACAGGGAG
TCCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAAACTCGAATTCTCAGTCTACACCTG
GCAGCTCTGGGCAGCGTAAGCGGAAAGTTCAGCTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCC
TCCACCTCCCCAGCTTGGCTATTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACAG
TGGTTCAACCAGGCCTTGGAGGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGACCCCACCTATCA
CTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCACCTGCCTCCCCACCCACCTCCCTCCTGGCCCC
AAGCACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCAGACTCCCCCGAGCCTGCCACCCTGCCCAGAA
TCTGCTGGAGCAGCAACCACTGAGGCCCTCTCACCTCCAAAGACACCCAGCCTCCTACCCCCGCTGGGTT
TATCACAGTCAGGGCCGCCAGGGCTGCTCCCCAGCCCCTCCTTTGACTCCAAACCCCCGACCACTTTGCT
GGGGCTGATCCCTGCTCCATCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCCTTCAGGCAGAG
ACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGCCCCCAAGCAAAGCTTCCTGTTTGGAACAC
AGAACACCTCACCTTCCAGCCCTGCCGCCCCTGCTGCATCTTCAGCACCTCCCATGTTCAAGCCCATTTT
CACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCACACCGCCTGGCCCTTCAGTCACAGCCACAGCGCCC
TCCAGCTCCTCCCTCCCCACGACCACCAGCACCACAGCCCCGACCTTCCAGCCTGTCTTTAGCAGCATGG
GGCCACCTGCATCTGTGCCCTTGCCTGCTCCCTTCTTCAAGCAGACAACTACTCCCGCCACTGCTCCCAC
CACAACTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGCCAGT
CCATCCACAGACTCTGCTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGCAGCAGTGTGA
GTACCACGACCAGCACCGCCACTGCCGCCTCACAGCCTTTCCTCTTCGGGGCGCCCCAGGCCTCTGCTGC
CAGCTTCACCCCGGCCATGGGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCCACAACCACCACA
GTCACCACCTTCAGCCAGTCCCTGCACACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTA
GTGGTTTTGGCAGCACCCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCCACTCTGACGTTCAGTAA
CACGAGCACCCCCACGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGA
GCCAACCCCCAGCCCGCATTTGGGGCCGCTGAGGGGCAGCCACCGGGGGCCGCCAAGCCGGCCCTTGCCC
CCAGCTTTGGCAGCTCTTTCACTTTTGGAAACTCTGCAGCCCCGGCTGCTGCACCCACACCTGCACCTCC
GTCCATGATCAAGGTCGTGCCTGCGTACGTGCCTACGCCCATCCATCCTATCTTTGGCGGTGCCACGCAC
TCGGCGTTTGGGTTGAAAGCCACGGCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCG
GCTCCACTGCTGTCTTCTTCGGTGCAGCCACCAGCTCCGGCTTTGGAGCCACCACCCAGACCGCCAGCAG
CGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACACCATCACCCTTCACGTTTGGGGGTTCGGCAGCCCCC
GCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCCAGGCTCCAGCACCACCACCGGAGCTTTCAGCT
TTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCCTTCGCAGGGGGCTTAGGTCAGAACGCCCT
GGGCACCACCGGCCAGAGCACACCGTTTGCCTTCAACGTGAGCAGCACAACTGAGAGCAAACCTGTGTTT
GGAGGCACCGCCACCCCCACCTTTGGTCTGAACACCCCTGCGCCTGGAGTGGGCACATCAGGCAGCAGCC
TCTCCTTTGGGGCATCCTCAGCACCCGCCCAAGGCTTTGTTGGTGTTGCACCTTTCGGATCGGCGGCCCT
TTCATTTTCCATTGGTGCGGGATCCAAGACCCCAGGGGCTCGACAGCGACTGCAGGCCCGAAGGCAGCAC
ACCCGCAAAAAGTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_172020 unedited
AGGGCGGCCGCGAATTCGGCACGAGGCCGCCTGGATTTGCCCCGTAGGCCCGGCCCGGGC
CCCTCGGGAGCACAACAGCCTTGGTGAGGTGGACAGGAGGGGACTTCGCGAGCAGACACG
CGCGCCAGCGACAGCAGCCCGCCCCGGCCTCTCGGGAGCCGCGGGGCACAGGCTGCGGAG
CCCCAAGAGGGTGATTTCTGCCTTTGCAGGCCGGAGCCCTCATGACTTCAGAGACCTGCT
TCTGCCCCTCTAGGTCTATCAGCCACAGTCTCTGCATGTTTCCAAGAGCAGCAGAAAATG
AACACATTGCACGGGCCAGTGTCATTCAAAGATGTGGCTGTGGATTTCACCCAGGAGGAG
TGGCGGCAACTGGACCCTGATGAGAAGATAACATACGGGGATGTGATGTTGGAGAACTAC
AGCCATCTAGTTTCCTTGGCTTATGAGGTGGCAACATCTTGGACTTCGGAGATTCTGAAG
CCGAGCAACTTGCCCAAGTCCTTCTTCTTTTCCCATTAACAAGATATGATATCACCAAGC
CAAACGTCATCATTAAGCTTGGAGCAGGGCAGAGGACGCTGCGGATAACGGTGAGGTGAA
TTTCCATGTCAACATAGTCCTGGTAAGTTACTAGAGTATCANATGTTAAAAAGTGCTCAT
CCCAGACCTTTGCGAGTGACTAAAGAGTTGTTTATATGTATTCGGTACCCCTCAGTACAC
CTGACAACCCCCAATATCACTTTTCTTAGCGCACACATACATGAACTCTNTTGGGTATTN
TATATTCGATNTACATCTGTNACGGATGNTGTCATTCTAACCTATACTGGGGACCCATTG
ACTTNCTCTTNCTNCAGCATTATCGGNCACTTATTTACTNCCNTCGCATTANNAGAAATN
GTGGNGGGGCCGNNTCGNTATTTATGNNTNGGNTTTTCGAGAACCGGAATCTTTN

Restriction Sites: NotI-NotI

ACCN: NM_172020

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

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_172020.1, NP_742017.1

RefSeq Size: 6014 bp

RefSeq ORF: 2955 bp

Locus ID:	9883
UniProt ID:	Q96HA1
Cytogenetics:	7q11.23
Gene Summary:	This gene encodes a transmembrane protein that localizes to the inner nuclear membrane and forms a core component of the nuclear pore complex, which mediates transport to and from the nucleus. The encoded protein may anchor this complex to the nuclear envelope. There are multiple related genes and pseudogenes for this gene on chromosomes 5, 7, 15, and 22. Alternatively spliced transcript variants encoding different isoforms have been observed. [provided by RefSeq, Jul 2013] Transcript Variant: This variant (2) differs in the 5' UTR and 3' UTR, and includes an alternate exon in the 3' coding region, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.