

Product datasheet for **SC116789**

PODXL (NM_005397) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PODXL (NM_005397) Human Untagged Clone
Tag:	Tag Free
Symbol:	PODXL
Synonyms:	gp135; Gp200; PC; PCLP; PCLP-1; PDX; PODXL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005397, the custom clone sequence may differ by one or more nucleotides

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ATGCGCTGCGCGCTGGCGCTCTCGGCGTGTCTACTGTTGTCAACGCCGCGCTGCTGCCGTCGTGCG
CGTCGCGCTGCGCGTCCGCTCCGAGAAATGCAACCCAGACTACTACGGACTCATCTAACAAAACAGCACC
GACTCCAGCATCCAGTGTACCATCATGGCTACAGATACAGCCAGCAGACAGTCCCCACTTCCAAG
GCCAACGAAATCTTGGCCTCGGTCAAGGCGACCCTTGGTGTATCCAGTGAATCACCAGGACTACAA
CCCTGGCTCAGCAAGTCTCAGGCCAGTCAACTACCGTGGCTAGAGGAGGCGGCTCAGGCAACCTAC
TACCACCATCGAGAGCCCAAGAGCACAAAAGTGCAGACACCACTACAGTTGCAACCTCCACAGCCACA
GCTAAACCTAACACCACAAGCAGCCAGAATGGAGCAGAAGATAACAACAACTCTGGGGGAAAAGCAGCC
ACAGTGTGACCACAGACCTCACATCCACTAAGGCAGAACATCTGACGACCCCTCACCTACAAGTCCACT
TAGCCCCGACAACCCACTTCGACGCATCTGTGGCCACCCCAACAAGCTCGGGACATGACCATCTTATG
AAAATTTCAAGCAGTTCAAGCACTGTGGCTATCCCTGGCTACACCTTACAAGCCCGGGGATGACCACCA
CCCTACCGTCATCGGTTATCTCGCAAAGAACTCAACAGACCTCCAGTCAGATGCCAGCCAGCTCTACGGC
CCCTTCTCCAGGAGACAGTGCAGCCACGAGCCCGGCAACGGATTGAGAACACCTACCTGCCAGAG
ACCATGAGCTCCAGCCACAGCAGCATCAACTACCCACCGATACCCCAAAACACCTTCTCCCACTGTGG
CTCATGAGAGTAACTGGGCAAAGTGTGAGGATCTTGAGACACAGACAGAGTGAGAAGCAGCTCGTCT
GAACCTCACAGGAAACACCCTCTGTGCAGGGGGCGCTTCGGATGAGAAATTGATCTCACTGATATGCCGA
GCAGTCAAAGCCACCTTCAACCCGGCCCAAGATAAGTGCAGGCATACGGCTGGCATCTGTTCCAGGAAGTC
AGACCGTGGTCTCAAAGAAATCACTATTCACACTAAGCTCCCTGCCAAGGATGTGTACGAGCGGCTGAA
GGACAAATGGGATGAACTAAAGGAGGCAGGGGTCACTGACATGAAGCTAGGGGACCAGGGGCCACCGGAG
GAGGCCGAGGACCGCTTCAGCATGCCCTCATCATCACCATCGTCTGCATGGCATCATCTCTCTCTCG
TGGCGGCCCTCTATGGCTGCTGCCACCAGCGCCTCTCCAGAGGAAGGACCAGCAGCGGCTAACAGAGGA
GCTGCAGACAGTGGAGAATGTTACCATGACAACCAACTGGAAGTGTGGAGACCTCTTCTGAGATG
CAGGAGAAGAAGGTGGTCAAGCCGAGGCTGGGGGACAGCTGGATCGTCCCTCTGGACAACCTGA
CCAAGGACGACCTGGATGAGGAGGAAGACACACCTCTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005397 unedited

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NTTTATAACACCCGCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA
TAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGG
CCGCGAATTCGCACGAGGCGCGGCGAGCGGACTCGGGAGCCCCGGGCCACAGCCTGGCCT
CCGGAGCCACCCACAGGCCTCCCCGGGCGGCGCCACGCCTCTACCGCCCGGACGCGCGG
ATCCTCCGCGGACCCGAGCCACTGCTCCCGGCCAGAGGCGACGACACGATGCGCTG
CGCGTGGCGCTCTCGGCGTGTCTACTGTTGTCAACGCCCGCGCTGCTGCCGTGCTC
GCCGTGCGCGTCCGCTCGCCCTCCGAGAAATGCAACCCAGACTACTACGGACTCATCTAA
CAAAACAGCACCGACTCCAGCATCCAGTGTACCATCATGGCTACAGATACAGCCAGCA
GAGCACAGTCCCCACTTCCAAGGCCAACGAAATCTTGGCCTCAGTCAAGGCGACCACCT
TGGTGTATCCAGTGAATCACCAGGACTACAACCTGGCTCAGCAAGTCTCAGGCCAGT
CAACTACTACCGTGGCTAGAGGAGGCGGCTCAGGCAACCTACTACCACCATCGAGAGCC
CAAGAGCACAAAAGTGCAGACCACTACAGTTGCAACCTCCACAGCCACAGCTAAACC
TAACACCACAAGCAGCCAGAATGGAGCAGAAGATAACAACAACTCTGGGGGAAAAGCAG
CCACAGTGTGACCACAGACCTCACATCCACTAAGGCAGACATCTGACGACCCCTCACCC
CTACAGTCCACTTAGCCCCGACACCCACTTGACGCATNCTGTGGCCACCCCCACAGCT
CGGACATGACCATCTTATGAAANTTCAAGCAGTTCAGCACTGG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005397 unedited NCGGTTTCGCTATGGNACCGCGGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTT CACAAAAACACTTTAATTGACAGTATACAATTTTCCAAAATATATTTTTGTAAGAAAATG CAATAATTATTAATACTATAGTTTTTACAAACAAGTTTCTCAGTAAATCCAGTGTACTTCA GACCCCTGTCCACTAAGACATATATGATCCCCAGTTCCTGGGCAAACCTGTTGAACATTC ACTGCAGACAAAAAGACCAACACCAAAGAGTCATCTGTGTCTCCATGCTGTGTTTGCG CAGACCTGAGGGATCAGCTAGTGACCCGTGACAAAAGCTATGCTACAGTTTTACTCTTGCC CTCTCTGCCTCCCCATCATGTTTCCTTGGTCCCTCAGTCTGTTGGAGTAAGTTCCATA TATAAAAGCTCATCCAAAACCTTTGTTTCTTGGCAGAAAGAAAGAATTGTTCACTTACATC TTAACCTAAATGATTACAGAGAAAGTGTAGAAGACCAGTTCCTTATGTTTGTGTTTCATGCC CTCCCTAGCCTTGCTAGGGTAACAACCTGGGAAAGGAATTCTGTCCTTTGTGTCATTCTGG CACCTTCGAGTAGCAATTCTTAATTTACCGATTATTCCTTCTGAGGCGCACAGTCTGTGG ATCCAGGGTTTAACTTGGTTCTGTCTGAACCATGTGATTTTGAGGAAGTCACTTCATC TTTGTGAGCTTCAAATTATCTTTTTCTCTTCAAAAAGAATGGACTAGATCTTGAAAAC TTTCTCCATGACTACAGGGGGTGGCTTGCCACCCAAGCATATTGGCTCCAACCTTACTG GAAATGGAGCTGGGACCTTCTGGGGAGGGGGCAGGGGTTGGCTTTTAAATTAAN
Restriction Sites:	NotI-NotI
ACCN:	NM_005397
Insert Size:	6000 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:	<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>NM_005397.2</u> , <u>NP_005388.2</u>
RefSeq Size:	5903 bp
RefSeq ORF:	1581 bp
Locus ID:	5420
UniProt ID:	<u>O00592</u>
Cytogenetics:	7q32.3
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a member of the sialomucin protein family. The encoded protein was originally identified as an important component of glomerular podocytes. Podocytes are highly differentiated epithelial cells with interdigitating foot processes covering the outer aspect of the glomerular basement membrane. Other biological activities of the encoded protein include: binding in a membrane protein complex with Na⁺/H⁺ exchanger regulatory factor to intracellular cytoskeletal elements, playing a role in hematopoietic cell differentiation, and being expressed in vascular endothelium cells and binding to L-selectin. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an in-frame alternate exon compared to variant 1, resulting in a shorter protein (isoform 2).