

## Product datasheet for **MC216991**

### Podxl (NM\_013723) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Podxl (NM_013723) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Podxl
Synonyms:	AW121214; Ly102; PC; PCLP-1; Pclp1; Podxl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216991 representing NM\_013723  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTCCACTACGGCGCTCTCCGCGTCTGCTGCTGCTACTGTGCGCTGCATCTCACTCCATAATG  
 GAAATGAGACTAGCACATCTGCTATCAAATCTAGCACTGTCCAGAGCCACCAAAGTGCCACAACATCAAC  
 AGAAGTACAACCTGGTCACCCAGTGGCATCTACACTTGCTTCAACCCAGCCAAGCAACCCCTACACCATTC  
 ACAACCTCAACCAATCTCCATCTATGCCGACCTCCACCCAAACCCACGAGCAATCAAAGCGGTGGCA  
 ATCTGACTTCCAGTGTCTCCGAGGTGGACAAGACTAAAACAAGCTCTCCAGTAGCACGGCTTCACCCAG  
 TAGCAGTGGACAAACAGCCTCCTCTGGAGGCAAGAGCGGTGACAGTTTTACCACAGCCCCAACACCACT  
 TTGGGGCTAATCAACGTCTTTCTCAGCCTACTGACCTTAATACCACCTCAAAGCTTCTTTCTACCCCCA  
 CAACAGACAACAACAAGCCCTCAGCAGCCTGTGGATTCTTACCAGCACAGCGAGCCATCCTGTGGG  
 GCAGCATACCCCTGCTGTGTTCCAGCAGCTCTGGCTCCAGCCCAGCACTGACAACCTTACACTGACA  
 TGGGAAGCCCACTACACACAACCAATTGGGCACCTCTGAAGCCCACTCAGCCCTCACCAGCCAGACACCAG  
 GCATCACTACATTGCCCGTCTCCACACTGCAACAGTCTATGGCGTCTACAGTGGGAACTACGACTGAAGA  
 GTTCACACACCTCATCTAATGGGACTCCCGTGGCCCTCCAGGCCAGACACCCCTCTCCCATCTGG  
 GCCTTTGGAAATTACCAGCTAACTGTGAACCTCCATAAGGCCAGATGAGGAACTCCTTATTCTGAACC  
 TCACAAGAGCCAGCCTTTGCGAAAGGAGCCCTCTGGATGAGAAAGAGAACTCGTGGAACTGCTGTGTCA  
 CTCAGTCAAAGCGTCTTCAAGCCAGCTGAGGATTTGTGCACTCTACATGTGGCCCTATTCTAGATAAC  
 CAGGCGGTGGCAGTGAAGAGAATCATTATCGAGACGAAGCTTTCTCCTAAGGCCGTGTATGAGCTACTGA  
 AGGACAGATGGGATGACCTGACAGAGCCGGAGTCAGTGACATGAAGCTGGGGAAGGAAGGCCCTCCAGA  
 GGTCAATGAGGACCGCTTCAGCCTGCCGCTCATCACCATCGTCTGCATGGCATCCTTCTCTGCTCCTT  
 GTTGCTGCCCTCTACGGCTGCTGTCAACAGCGGATCTCCAGAGGAAGGACCAGCAACGGCTCACAGAGG  
 AGCTGCAGACAGTGGAGAATGGTTACCATGACAACCCAACCTTGGAAAGTATGGAGACTCCTTCTGAGAT  
 GCAGGAGAAGAAGGTGGTCAACCTTAATGGGGAGCTGGGGGACAGTTGGATCGTCCCTCTGGACAACCTG  
 ACCAAGGATGACCTAGATGAGGAGGAAGACACACACCT**TGA**

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_013723  
**Insert Size:** 1512 bp  
**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](mailto: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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_013723.3, NP_038751.2</u>
<b>RefSeq Size:</b>	5330 bp
<b>RefSeq ORF:</b>	1512 bp
<b>Locus ID:</b>	27205
<b>UniProt ID:</b>	<u>Q9R0M4</u>
<b>Cytogenetics:</b>	6 12.57 cM
<b>Gene Summary:</b>	Involved in the regulation of both adhesion and cell morphology and cancer progression. Function as an anti-adhesive molecule that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion. Acts as a pro-adhesive molecule, enhancing the adherence of cells to immobilized ligands, increasing the rate of migration and cell-cell contacts in an integrin-dependent manner. Induces the formation of apical actin-dependent microvilli. Involved in the formation of a preapical plasma membrane subdomain to set up initial epithelial polarization and the apical lumen formation during renal tubulogenesis. Plays a role in cancer development and aggressiveness by inducing cell migration and invasion through its interaction with the actin-binding protein EZR. Affects EZR-dependent signaling events, leading to increased activities of the MAPK and PI3K pathways in cancer cells.[UniProtKB/Swiss-Prot Function]