

Product datasheet for **MR208097**

Podxl (NM_013723) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Podxl (NM_013723) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR208097 representing NM_013723
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTCCACTACGGCGCTCTCCGCGTCTGCTGCTGCTACTGTGCGCTGCATCTCACTCCATAATG
 GAAATGAGACTAGCACATCTGCTATCAAATCTAGCACTGTCCAGAGCCACCAAAGTGCCACAACATCAAC
 AGAAGTACAACCTGGTCACCCAGTGGCATCTACACTTGCTTCAACCCAGCCAAGCAACCCCTACACCATTC
 ACAACCTCAACCAATCTCCATCTATGCCGACCTCCACCCAAACCCACGAGCAATCAAAGCGGTGGCA
 ATCTGACTTCCAGTGTCTCCGAGGTGGACAAGACTAAAACAAGCTCTCCAGTAGCACGGCTTCACCAG
 TAGCAGTGGACAAACAGCCTCCTCTGGAGGCAAGAGCGGTGACAGTTTTACCACAGCCCCAACACCACT
 TTGGGGCTAATCAACGTCTTTCTCAGCCTACTGACCTTAATACCACCTCAAAGTTCTTTCTACCCCCA
 CAACAGACAACAACAAGCCCTCAGCAGCCTGTGGATTCTTACCAGCACAGCGAGCCATCCTGTGGG
 GCAGCATACCCCTGCTGTGTTCCAGCAGCTCTGGCTCCAGCCCAGCACTGACAACCTACACTGACA
 TGGGAAGCCCACTACACACAACCAATTGGGCACCTCTGAAGCCCACTCAGCCCTCACCAGCCAGACACCAG
 GCATCACTACATTGCCCGTCTCCACACTGCAACAGTCTATGGCGTCTACAGTGGGAACTACGACTGAAGA
 GTTCACACACCTCATCTAATGGGACTCCCGTGGCCCTCCAGGCCAGACACCCTCTCCCATCTGG
 GCCTTTGGAAATTACCAGCTAACTGTGAACCTCCATAAGGCCAGATGAGGAACCTCTTATTCTGAACC
 TCACAAGAGCCAGCCTTTGCGAAAGGAGCCCTCTGGATGAGAAAGAGAAACTCGTGGAACTGCTGTGTCA
 CTCAGTCAAAGCGTCTTCAAGCCAGCTGAGGATTTGTGCACTCTACATGTGGCCCTATTCTAGATAAC
 CAGGCGGTGGCAGTGAAGAGAATCATTATCGAGACGAAGCTTTCTCCTAAGGCCGTGTATGAGCTACTGA
 AGGACAGATGGGATGACCTGACAGAGCCGGAGTCAGTGACATGAAGCTGGGAAGGAAGGCCCTCCAGA
 GGTCAATGAGGACCGCTTACGCCTGCCGCTCATCATCACCATCGTCTGCATGGCATCCTTCTGCTCCTT
 GTTGCTGCCCTCTACGGCTGCTGTCAACAGCGGATCTCCAGAGGAAGGACCAGCAACGGCTCACAGAGG
 AGCTGCAGACAGTGGAGAATGGTTACCATGACAACCCAACTTGGAAAGTATGGAGACTCCTTCTGAGAT
 GCAGGAGAAGAAGGTGGTCAACCTTAATGGGGAGCTGGGGGACAGTTGGATCGTCCCTCTGGACAACCTG
 ACCAAGGATGACCTAGATGAGGAGGAAGACACACACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208097 representing NM_013723
 Red=Cloning site Green=Tags(s)

MPPTTALSALLLLLLSPASHSHNGNETSTSAIKSSTVQSHQSATTSTEVTGHPVASTLASTQPSNPTPF
 TTSTQSPSMPSTPNPNTSNQSGNLTSSVSEVDKTKTSSPSSTAFSSSQQTASSGGKSGDSFTTAPTTT
 LGLINVSSQPTDLNNTSKLLSTPTDNTTSPQPVDSSPSTASHPVGQHTPAAVPSSSGSTPSTDNSTLT
 WKPTTHKPLGTSEATQPLTSQTPGITTLPVSTLQQSMASVTGTTTEEFTHLISNGTPVAPPGPSTPSPIW
 AFGNYQLNCEPPIRPDEELLILNLTRASLCERSPLDEKEKLVLLCHSVKASFKAEDLCTLHVAPILDN
 QAVAVKRII IETKLSPKAVYELLKDRWDDLTEAGVSDMKLGKEGPPVNEVDRFSLPLIITIVCMASFLLL
 VAALYGCHQRISQRKQQRLTEELQTVENGYHDNPTLEVMETPSEMQEKKVVNLNGLGDSWIVPLDNL
 TKDDLDEEEDTHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_c10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_013723

ORF Size: 1509 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

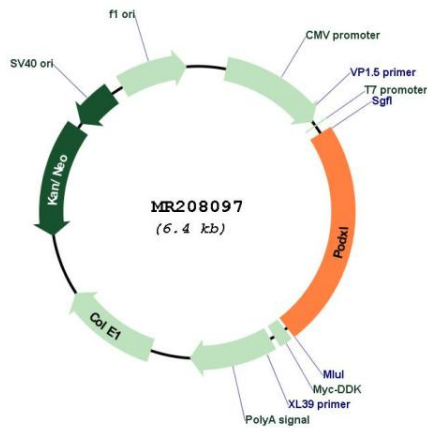
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_013723.3, NP_038751.2](#)
RefSeq Size: 5330 bp
RefSeq ORF: 1512 bp
Locus ID: 27205
UniProt ID: [Q9R0M4](#)
Cytogenetics: 6 12.57 cM
MW: 53.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR208097