

Product datasheet for **RG210816**

PODXL (NM_005397) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PODXL (NM_005397) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PODXL
Synonyms:	gp135; Gp200; PC; PCLP; PCLP-1; PDX; PODXL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG210816 representing NM_005397
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCTGCGCGCTGGCGCTCTCGGCGTCTGCTACTGTTGTCAACGCCGCGCTGCTGCCGTCGTCGC
 CGTCGCCGTCGCCGTCGCCCTCCAGAATGCAACCCAGACTACTACGGACTCATCTAACAAAACAGCACC
 GACTCCAGCATCCAGTGTCAACATCATGGCTACAGATACAGCCAGCAGAGCACAGTCCCACTTCCAAG
 GCCAACGAAATCTTGGCCTCAGTCAAGGCGACCACCTTGGTGTATCCAGTGACTCACCGGGGACTACAA
 CCCTGGCTCAGCAAGTCTCAGGCCAGTCAACACTACCGTGGCTAGAGGAGGCGGCTCAGGCAACCTTAC
 TACCACCATCGAGAGCCCAAGAGCACAAAAAGTGCAGACACCACTACAGTTGCAACCTCCACAGCCACA
 GCTAAACCTAACACCACAAGCAGCCAGAATGGAGCAGAAGATAACAACAACTCTGGGGGAAAAGCAGCC
 ACAGTGTGACCACAGACCTCACATCCACTAAGGCAGAACATCTGACGACCCCTCACCTACAAGTCCACT
 TAGCCCCGACAACCCACTTCGACGCATCCTGTGGCCACCCCAACAAGCTCGGGACATGACCATCTTATG
 AAAATTTCAAGCAGTTCAAGCACTGTGGCTATCCCTGGCTACACCTTACAAGCCCGGGGATGACCACCA
 CCCTACCGTCATCGTTATCTCGCAAAGAACTCAACAGACCTCCAGTCAGATGCCAGCCAGCTCTACGGC
 CCCTTCTCCCAGGAGACAGTGCAGCCACGAGCCGGCAACGGCATTGAGAACCTACCTGCCAGAG
 ACCATGAGCTCCAGCCCCACAGCAGCATCAACTACCCACCGATACCCCAAAACACCTTCTCCCACTGTGG
 CTCATGAGAGTAACTGGGCAAAGTGTGAGGATCTTGAGACACAGACACAGAGTGAGAAGCAGCTCGTCT
 GAACCTCACAGGAAACACCTCTGTGCAGGGGGCGCTTCGGATGAGAAATGATCTCACTGATATGCCGA
 GCAGTCAAAGCCACCTTCAACCCGGCCCAAGATAAGTCCGGCATACGGCTGGCATCTGTTCCAGGAAGTC
 AGACCGTGGTCGTCAAAGAAATCACTATTCACACTAAGCTCCCTGCCAAGGATGTGTACGAGCGGCTGAA
 GGACAAATGGGATGAACTAAAGGAGGCAGGGTCAAGTACATGAAAGCTAGGGGACCAGGGGCCACCGGAG
 GAGGCCGAGGACCGCTTACAGCATGCCCTCATCATCACCATCGTCTGCATGGCATCATTCTGCTCTCG
 TGGCGGCCCTCTATGGCTGCTGCCACCAGCGCCTCTCCCAGAGGAAGGACCAGCAGCGGCTAACAGAGGA
 GCTGCAGACAGTGGAGAATGGTTACCATGACAACCAACACTGGAAGTGTGGAGACCTTCTGAGATG
 CAGGAGAAGAAGTGGTCAAGCTCAACGGGAGCTGGGGACAGCTGGATCGTCCCTCTGGACACCTGA
 CCAAGGACGACCTGGATGAGGAGGAAGACACACCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210816 representing NM_005397
 Red=Cloning site Green=Tags(s)

MRCALALSALLLLSTPPLLSPSPSPSPSQNATQTTTDDSSNKTAPTPASSVTIMATDQAQQSTVPVPTSK
 ANEILASVKATTLGVSSDSPGTTTLLAQVSGPVNTTVARGGGSGNPSTTTIESPKSTKSADTTTSTAT
 AKPNTTSSQNGAEDTTNSGGKSSHVTTDLTSTKAEHLTPHPTSPRQPTSTHPVATPTSSGHDHLM
 KISSSSSTVAIPGYFTSPGMMTTLPSSVISQRTQQTSSQMPASSTAPSSQETVQPTSPATALRPTLPE
 TMSSSPTAASTTHRYPKTPSPTVAHESNWKCEDLETQTQSEKQLVLNLGNTLCAGGASDEKLI SLICR
 AVKATFNPAQDKCGIRLASVPGSQTVVVEIITHTKLPKADVYERLKDWDDELKEAGVSDMKLGDQGPPE
 EAEDRFMSPLIITIVCMASFLLLVAALYGCCHQRLSQRKDQQLTEELQTVENGYHDNPTLEVMETSSEM
 QEKVVVSLNGELGDSWIVPLDNLTKDDLDEEEDTHL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005397

ORF Size: 1578 bp

OTI Disclaimer: 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_005397.2](#), [NP_005388.2](#)

RefSeq Size: 5903 bp

RefSeq ORF: 1581 bp

Locus ID: 5420

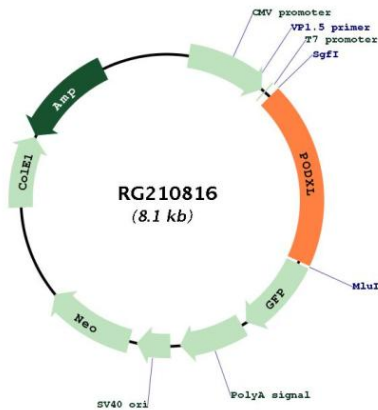
UniProt ID: [O00592](#)

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]

Product images:



Circular map for RG210816