

## Product datasheet for **MG209785**

### **Pdzrn3 (BC010329) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdzrn3 (BC010329) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdzrn3
Synonyms:	1110020C07Rik; AI429718; AL023082; LNX3; SEMACAP3; Semcap3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MG209785 representing BC010329  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGACAGAGAAGAGCTGGAGCTGGAGGAAGTGGCCCTCTACAGGATGAACAGCCAGGACAAGCTGGGTC  
TCACTGTGTGCTACCGGACGGATGACGAAGATGACATTGGGATATATATAAGTGAGATTGACCCTAACAG  
CATTGCAGCCAAAGATGGACGGATCCGTGAAGGAGATCGCATCATCCAGATTAATGGCATCGAAGTACAG  
AACCGTGAAGAGGCCGTGGCGCTTCTAACCAGTGAAGAAAACAAGAACTTTTCATTGCTGATTGCAAGGC  
CTGAGCTCCAGCTGGATGAGGGCTGGATGGATGACGACAGGAACGACTTCTGGATGACTTACACATGGA  
CATGCTGGAGAACAGCATCACCAGGCCATGCAGTTCACAGCCAGTGTGCTCCAGCAGAAGAAGCATGAG  
GAAGATGGTGGGACCACAGACACAGCCACCATCTTATCCAACCAGCACGAAAAGACAGTGGTGTGGGGC  
GAACGGATGAGAGCACCCGCAATGATGAGAGCTCAGAACAGGAGAATAACGGTGAAGATGCTACGGCATC  
CGCCAACCCGCTGGCGGGCCAGAGGAAGCTGACCTGTAGCCAGGACACCCTGGGCAGTGGCGACCTGCCT  
TTCAGCAATGAGTCCCTCATCTCTGCGGACTGTACCGATGTGGACTACCTGGGCATCCCAGAGGATGAGT  
GCGAGCGTTTTTCGTGAAGTGTGGAGCTCAAGTGCCAAGTGCAGAGCGCCAGCCCTACAGCCTGTACTA  
CCCTAGCAGCCCGCTGGATGCTGCTGGCAAGAGTGACCCCGAGAGCGTGGACAAGGAGCTGGAGCTACTC  
AATGAGGAGTTGCGCAGCATCGAGCTAGAGTGCCTGAGCATCGTGCCTGCGCACAAGATGCAGCAGCTCA  
AGGAACAGTACCGTGAGTCTGGATGCTGCACCACAGTGGCTTCCGCAACTACAACACAGTGTGGACGT  
GCGCCGCCATGAGCTCTCGGACATCACTGAGCTGCCGGAGAAGTCAGACAAGGATAGTTCAAGCGCCTAC  
AACACGGGGGAGAGCTGCAGGAGTACCCCACTCACCTGGAGATCTCTCCGGACAACCTCCCTGCGGAGAG  
TGGCCGAGGGCAGTAGTGAAGGGGCCACAGCTAACATCGAAGCTTACAGGCCATCCCCAAGAATCTACT  
CGCCATCACTGAGGACCCTGAAGTAAGCACCCCAAGCTACAACCTAGCTCCAAAGAGCTGGACCCAGC  
CAGGCTTTGGAGATCAAAGAACGCCGAGGTAGCGATGGCAGCAGGAGCCCAACCGCCAGCCCAAAGCTGG  
GCAATGCCTACCTGCCCTCGTACCACCACTCCCCCTACAAACACGCGCACATCCCAGCTCACGCGCAACA  
CTACCAGAGCTACATGCACCTGATCCAGCAGAAGTCAGCAGTGGAGTATGCGCAGAGCCAGATGAGCCTG  
GTGAGCATGTGCAAGGACTTGAAGTCTTCTAAGTCTGCGGAACCCAGGATGGAATGGAAAGTGAAGATCC  
GCAGTACGCGGACGCGCTACATACCAAGAGGCCGGTGCCTGACAGACTGCTGCGGGAGCGTGCCTGAA  
GATCCGCGAGGAGCGCAGTGGCCTGACCACGGATGATGACGCCATGAGTGAAGTGAAGTGGGGCGCTAC  
TGGAGCAAGGAGGAGCGCAAGCAACATCTGGTGAAGGCCAAGGAGCAGAGCGGAGCGCGAGTTTATGA  
TGCAGAGCAGGCTGGATTGTCTGAAGGAGCAGCAGGCCTCCGACGACAGGAAGGAGATGAACATCCTGGA  
ACTGAGCCACAAAAGATGATGAAGAAGAGGAACAAAAGATCTTTGACAATTGGATGACTATCCAAGAA  
CTCTTAACCCACGGCACAAAATCGCCAGACGGCACTAGGGTATACAATTCCTTCTGTCGGTGACTACTG  
TA

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG209785 representing BC010329  
 Red=Cloning site Green=Tags(s)

MDREELEEEVGLYRMNSQDKLGLTVCYRTDEDDIGIYIASEIDPNSIAAKDGRIREGDRIIQINGIEVQ  
 NREEAVALLTSEENKNFSLLIARPELQLDEGWMDDDRNFLDDLHMDLLEEQHHQAMQFTASVLQKKHE  
 EDGTTDTATILSNQHEKDSGVGRTESTRNDESSEQENNGEDATASANPLAQKRLTCSQDTLGSGDLP  
 FSNESFISADCTDVDYLGIPEDECERFRELLELKCVQSASPYSLYPSSPLDAAGKSDPESVDKELELL  
 NEELRSIELECLSIVRAHKMQQLKEQYRESWMLHHSGRFRNYNTSVDVRRHELSDITELPEKSDKDSSAY  
 NTGESCSTPLTLEISPDNSLRVVAEGSSEGANIEAYRSPKNLLAITEDPEVSTPSYNPSSKELDPS  
 QALEIKERRGSDGSRSPASPKNLGNAYLPSYHHSYKHAHIPAHAQHYQSYMHLIQKSAVEYAQSQMSL  
 VSMCKDLNSSNSAEPMEWKVKIRSDGTRYITKRPVRDRLLRERALKIREERSGLTDDDAMSEMKGRY  
 WSKERKQHLVKAKEQRRRREFMMQSRDLCLKEQQASDDRKEMNILELSHKMMKRNKIKFDNWMTIQE  
 LLTHGTSKSPDGRVYNSFLSVTTV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

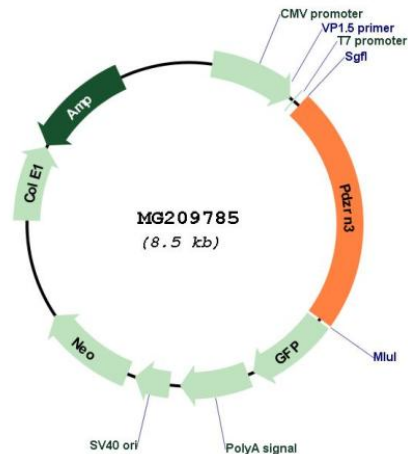
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: BC010329

ORF Size: 1964 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:** [BC010329](#), [AAH10329](#)

RefSeq Size: 2921 bp

RefSeq ORF: 1964 bp

Locus ID: 55983

Cytogenetics: 6 D3

**Gene Summary:** E3 ubiquitin-protein ligase. Plays an important role in regulating the surface level of MUSK on myotubes. Mediates the ubiquitination of MUSK, promoting its endocytosis and lysosomal degradation. Might contribute to terminal myogenic differentiation.[UniProtKB/Swiss-Prot Function]