

## Product datasheet for **RG216091**

### SEMCAP3 (PDZRN3) (NM\_015009) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEMCAP3 (PDZRN3) (NM_015009) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDZRN3
Synonyms:	LNX3; SEMACAP3; SEMCAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216091 representing NM_015009 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCTTCGAGCTGGACCGCTTCGACGGCGACGTGGACCCGGACCTGAAGTGCGCGCTGTGCCACAAGG  
TCCTGGAGGACCCGCTGACCACGCCGTGCGGCCACGTCTTCTGCGCCGGCTGCGTGTGCCCTGGTGGT  
GCAGGAGGGCAGCTGCCGGCGCGCTGCCGCGGTGCCTGTGCGCCAAAGAGCTCAACCACGTCCTGCCG  
CTCAAGCGCCTTATCCTCAAGCTGGACATCAAGTGCCTACGCGACGCGCGGCTGCGGCCGGTGGTCA  
AGCTGCAGCAGCTGCCGGAGCACCTCGAGCGCTGCGACTTCGCGCCCGCGCGCTGTGCCACGCGGGTTG  
CGCCAGGTGCTGCTGCGCGCGACGTGGAGGCGCACATGCGCGACGCGTGCACGCGCGCCAGTGGGC  
CGCTGCCAGGAGGGCTGCGGGCTACCTTGACGCACGGCGAGCAGCGCGGGCGGCCACTGCTGCGCGC  
GAGCGCTGCGGGCGCACAAACGGCGCGCTCCAGGCCCGCTGGGCGCGCTGCACAAGGCGCTCAAGAAGGA  
GGCGCTGCGCGCTGGGAAGCGGAGAAGTGCCTGGTGGCCAGCTGGCCGCGCGCAGCTTGAGCTGCAG  
ATGACCGCGCTGCGCTACCAGAAGAAATCACCGAATACAGCGCGCGCTCGACTCGCTCAGCCGCTGCG  
TGGCCGCGCCCGCCGGCGGAAGGGCGAAGAAACAAAAGTCTGACTCTGTCTGCATCGGGACTCCGG  
CTCCCTGGGATTAATATTATTGGTGGCCGCGCAGTGTGGATAACCACGATGGATCATCCAGTGAAGGA  
TTATTGAGGTCAACGGCAGAGACTTATCCAGAGCAACTCATGACCAGGCTGTGGAAGCTTCAAGACAGC  
CAAGGAGCCCATAGTGGTGCAGGTGTTGAGAAGAACAACCAAGGACCAAAATGTTACGCTCCATCAGAG  
TCTCAGCTGGTGGACACGGGAACCAACCGACATCACCTTTGAACATATCATGGCCCTACTAAGATGT  
CCTCTCCAGCCACCCGTGCTGGATCCCTATCTCTTCCAGAGGAGCATCCCTCAGCCCATGAATACTA  
CGATCAAATGACTACATTGGAGACATCCATCAGGAGATGGACAGGAGGAGCTGGAGCTGGAGGAAGTG  
GACCTCTACAGAATGAACAGCCAGGACAAGCTGGGCTCACTGTGTGCTACCGGACGGACGATGAAGACG  
ACATTGGGATTTATATCAGTGAGATTGACCTAACAGCATTGCAGCAAGGATGGGCGCATCCGAGAAGG  
AGACCGCATTATCCAGATTAATGGGATAGAGGTGACAGAACCGTGAAGAGGCTGTGGCTCTTCTAACCAGT



[View online »](#)

GAAGAAAATAAAAACTTTTCATTGCTGATTGCAAGGCCTGAACTCCAGCTGGATGAGGGCTGGATGGATG  
 ATGACAGGAACGACTTTCTGGATGACCTGCACATGGACATGCTGGAGGAGCAGCACCACCAGGCCATGCA  
 ATTCACAGCTAGCGTGTGCAGCAGAAGAAGCAGCAGCAAGACGGTGGGACCACAGATACAGCCACCATC  
 TTGTCCAACCAGCAGCAGAGAAGGACAGCGGTGTGGGGCGGACCAGCAGAGCACCCTGAATGACGAGAGCT  
 CGGAGCAAGAGAACAATGGCGACGACGCCACCAGCATCTCCAACCCGCTGGCGGGCAGAGGAAGCTCAC  
 CTGCAGCCAGGACACCTTGGGCAGCGGACCTGCCCTCAGCAACGAGTCTTTCATTTTCGGCCGACTGC  
 ACGGACGCCGACTACCTGGGGATCCCCTGGAGTGGAGTGGAGCGTTCGCGAGCTCTGGAGCTCAAGT  
 GCCAGGTGAAGAGCGCCACCCTTACGGCTGTACTACCCTAGCGGCCCTGGAGCCGCAAGAGTGA  
 CCCTGAGAGCGTGGACAAGGAGCTGGAGCTGCTGAACGAAGAGCTGCGCAGCATCGAGCTGGAGTGCCTG  
 AGCATCGTGCAGCCACAAGATGCAGCAGCTCAAGGAGCAGTACCGGAGTCTGGATGCTGCACAACA  
 GCGGCTTCGCAACTACAACACCAGCATCGACGTGCGCAGACACGAGCTCTCAGATATCACCAGCTCCC  
 GGAGAAATCCGACAAGGACAGCTCGAGCGCTACAACACAGGCGAGAGCTGCCGAGCACCCTGCTCACC  
 CTGGAGATCTCCCCGACAACCTCTTGGAGAGCGGCGGAGGGCATCAGCTGCCGAGCAGCGAAGGGG  
 CTGTGGGACCACGGAAGCCTACGGGCCAGCTCCAAGAATCTGCTCTCCATCACGGAAGATCCCAGT  
 GGGCACCCTACCTATAGCCCGTCCCTGAAGGAGCTGGACCCCAACCAGCCCTGGAAGCAAAGAGCGG  
 AGAGCCAGCGACGGGAGCCGAGCCACGCCCAGCCAGAAGCTGGCAGCGCCTACCTGCCTCTATC  
 ACCACTCCCATACAAGCAGCGCATCCCAGGCGCAGCCAGCACTACCAGAGCTACATGCAGCTGAT  
 CCAGCAGAAGTCCGCGTGGAGTACGCGCAAAGCCAGATGAGCCTGGTGGAGTGTGCAAGGACCTGAGC  
 TCTCCACCCCGTCCGAGCCGCGCATGGAGTGAAGGTGAAGTCCGAGCAGCGGGACGCGCTACATCA  
 CCAAGAGGCCCGTGCAGGACCGCTGCTGCGGGAGCGCGCTGAAGTCCGGGAAGAGCGCAGCGGCAT  
 GACCACCGACGACGCGGTGAGCGAGATGAAGTGGGCGCTACTGGAGCAAGGAGGAGGAAGCAG  
 CACCTGGTGAAGCCAAGGAGCAGCGGCGGCGGAGTTCATGATGCAGAGCAGTGGATTGTCTCA  
 AGGAGCAGCAAGCAGCCGATGACAGGAAGGAGATGAACATTCTGAACTGAGCCACAAAAAGATGATGAA  
 GAAGAGGAATAAGAAAATCTTCGATAAAGTGGATGACGATGACGATCCAAGAAGTCTTAACCCACGGCAAAAATCC  
 CCGGACGGCACTAGAGTATAAATTCCTTCTATCGGTGACTACTGTA

ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG216091 representing NM\_015009

Red=Cloning site Green=Tags(s)

MGFELDRFDGVDPLKCALCHKVLEDPLTTPCGHVFCAGCVLPWVVEGSCPARCRGRLSAKELNHVLP  
 LKRLILKLDIKCAYATRGCGRVVKLQQLPEHLERCDFAPARCRHAGCGVLLRRDVEAHMRDADARPVG  
 RCQEGCGLPLTHGEQRAGGHCCARALRAHNGALQARLGALHKALKKEALRAGKREKSLVAQLAAQLELQ  
 MTALRYQKKFTEYSARLDSLRCVAAPPGGKGEETKSLTLVLRHDSGSLGFNIIGGRPSVDNHDGSSSEG  
 IFVSKIIVDSGPAAKEGGLQIHDRIIEVNGRDLSRATHDQAVEAFKTAKEPIVVQVLRRTPRTKMFTPPSE  
 SQLVDTGTQDTITFEHIMALTKMSSPSPVLDPYLLPEEHPHSAHEYYDPNDYIGDIHQEMDREELLEEVE  
 DLYRMNSQDKLGLTVCYRTDEDDIGIYISEIDPNSIAAKDGRIREGDRIIQINGIEVQNREEAVALLTS  
 EENKNFSLLIARPELQLDEGWMDDDRNDFLDDLHMDMLEEQHHQAMQFTASVLQQKHDEGGTDTATI  
 LSNQHEKDSGVGRTESTRNDESEQENNGDDATASSNPLAGQRKLTCSQDTLGSGLDPSNESFISADC  
 TDADYLGIPIVDECERFRELLELKCQVKSATPYGLYYPSGPLDAGKSDPESVDKELELLNEELRSIELECL  
 SIVRAHKMQQLKEQYRESWMLHNSGFRNYNTSIDVRRHELSDITELPEKSDKDSSAYNTGESCRSTPLT  
 LEISPDNSLRRAAEGISCPSSGAVGTTEAYGPASKNLLSITEDPEVGTPTYSPSLKELDPNQPLESKER  
 RASDGSRSPTPSQKLGSAYLPSYHHSPYKHAHIPAHAQHYQSYMQLIQKSAVEYAQSQMSLVSMCKDLS  
 SPTPSEPRMEWKVIRSDGTRYITKRPVRDRLRERALKIREERSGMTTDDDAVSEMKGRIYWSKEERKQ  
 HLVKAKEQRRRREFMMQSRDLCKEQAADDRKEMNILELSHKKMMKRNKKIFDNWMTIQELLTHGTKS  
 PDGTRVYNSFLSVTTV

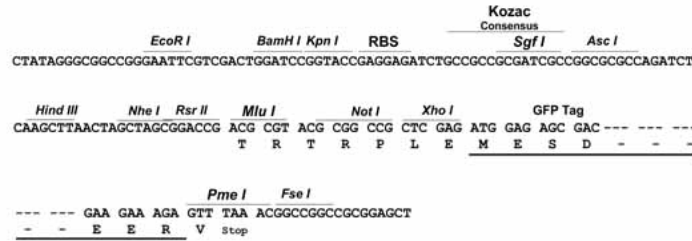
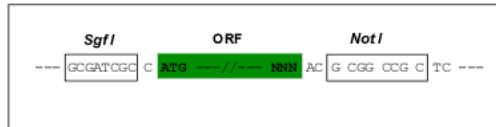
TRPLE - GFP Tag - V

**Restriction Sites:**

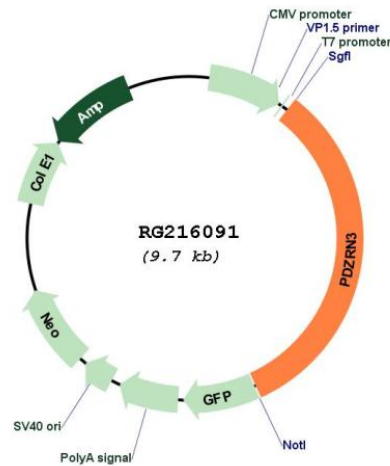
Sgfl-NotI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_015009  
 ORF Size: 3198 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_015009.1</a>, <a href="#">NP_055824.1</a></p>
<b>RefSeq Size:</b>	<p>4161 bp</p>
<b>RefSeq ORF:</b>	<p>3201 bp</p>
<b>Locus ID:</b>	<p>23024</p>
<b>UniProt ID:</b>	<p><a href="#">Q9UPQ7</a></p>
<b>Cytogenetics:</b>	<p>3p13</p>
<b>Protein Families:</b>	<p>Druggable Genome</p>
<b>Gene Summary:</b>	<p>This gene encodes a member of the LNX (Ligand of Numb Protein-X) family of RING-type ubiquitin E3 ligases. This protein may function in vascular morphogenesis and the differentiation of adipocytes, osteoblasts and myoblasts. This protein may be targeted for degradation by the human papilloma virus E6 protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p>