

Product datasheet for **RC239564**

SEMCAP3 (PDZRN3) (NM_001303141) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEMCAP3 (PDZRN3) (NM_001303141) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEMCAP3
Synonyms:	LNK3; SEMACAP3; SEMCAP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239564 representing NM_001303141
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATGGAACACAAGAGGATGATCTTATTGTTTCAGTAAATTTACTCTAATACATAAACCCCATGGTG
 GAAGATGGTATTTGGTCAACGGCAGAGACTTATCCAGAGCAACTCATGACCAGGCTGTGGAAGCTTTCAA
 GACAGCCAAGGAGCCCATAGTGGTGCAGGTGTTGAGAAGAACCAAGGACCAAAATGTTACGCGCTCCA
 TCAGAGTCTCAGCTGGTGGACACGGGAACCCAAACCGACATCACCTTTGAACATATCATGGCCCTCACTA
 AGATGTCTCTCCAGCCACCCGCTGCTGGATCCCTATCTCTTGGCAGAGGAGCATCCCTCAGCCCATGA
 ATACTACGATCCAAATGACTACATTGGAGACATCCATCAGGAGATGGACAGGGAGGAGCTGGAGCTGGAG
 GAAGTGGACCTCTACAGAATGAACAGCCAGGACAAGCTGGGCCTCACTGTGTGCTACCGGACGGACGATG
 AAGACGACATTGGGATTTATATCAGTGAGATTGACCCTAACAGCATTGCAGCCAAGGATGGGCGCATCCG
 AGAAGGAGACCGCATTATCCAGATTAATGGGATAGAGGTGCAGAACCGTGAAGAGGCTGTGGCTCTTCTA
 ACCAGTGAAGAAAATAAAACTTTTCATTGCTGATTGCAAGGCCTGAACCTCCAGCTGGATGAGGGCTGGA
 TGGATGATGACAGGAACGACTTTCTGGATGACCTGCACATGGACATGCTGGAGGAGCAGCACCACAGGC
 CATGCAATTCACAGCTAGCGTGCTGCAGCAGAAGAAGCACGACGAAGACGGTGGGACCACAGATACAGCC
 ACCATCTTGTCACACAGCAGGAGAAGGACAGCGGTGTGGGGCGGACCGACGAGAGCACCCTAATGACG
 AGAGCTCGGAGCAAGAGAACAATGGCGACGACGCCACCGCATCTCCAACCCGCTGGCGGGGAGAGGAA
 GCTCACCTGCAGCCAGGACACCTTGGGCAGCGGCGACCTGCCCTTCAGCAACGAGTCTTTCAATTCGGCC
 GACTGCACGGACGCCGACTACCTGGGGATCCCGGTGGACGAGTGCAGCGCTTCCGCGAGCTCCTGGAGC
 TCAAGTGCCAGGTGAAGAGCGCCACCCCTTACGGCCTGTACTACCCTAGCGGCCCTGGACGCCGCGAA
 GAGTGACCTTGAGAGCGTGGACAAGGAGCTGGAGCTGCTGAACGAAGAGCTGCGCAGCATCGAGCTGGAG
 TGCTTGAGCATCTGCGCGCCCAAGATGCAGCAGCTCAAGGAGCAGTACCGCGAGTCTGGATGCTGC
 ACAACAGCGGCTTCCGCAACTACAACACCAGCATCGACGTGCGCAGACACGAGCTCTCAGATATCACCGA
 GCTCCCGGAGAAATCCGACAAGGACAGCTCGAGCGCTACAACACAGGCGAGAGTGCCGCGACACCCCG
 CTCACCTGGAGATCTCCCCGACAACCTTGGAGAGAGCGGCGGAGGGCATCAGCTGCCCGAGCAGCG
 AAGGGGCTGTGGGACCACGGAAGCCTACGGGCCAGCCTCCAAGAATCTGCTCTCCATCACGGAAGATCC
 CGAAGTGGGACCCCTACCTATAGCCCGTCCCTGAAGGAGCTGGACCCCAACCAGCCCTGGAAAGCAAA
 GAGCGGAGAGCCAGCAGCGGGAGCCGAGCCCCACGCCAGCCAGAAGCTGGGACGCGCTACCTGCCCT
 CCTATCACCACTCCCATACAAGCACGCGCACATCCCGGCGCACGCCAGCACTACCAGAGCTACATGCA
 GCTGATCCAGCAGAAGTCGGCCGTGGAGTACGCGCAAAGCCAGATGAGCCTGGTGAGCATGTGCAAGGAC
 CTGAGCTCTCCACCCCGTCCGAGCCGCGCATGGAGTGGAAGGTGAAGATCCGCGAGCAGCGGACGCGCT
 ACATCACCAAGAGGCCCGTCCGGGACCGCTGCTGCGGGAGCGCGCCCTGAAGATCCGGGAAGAGCGCAG
 CGGCATGACCACCGACGACGCGGTGAGCGAGATGAAGATGGGGCGCTACTGGAGCAAGGAGGAGAGG
 AAGCAGCACCTGGTGAAGCCAAGGAGCAGCGGCGGCGCGAGTTCATGATGCAGAGCAGGTTGGATT
 GTCTCAAGGAGCAGCAAGCAGCCGATGACAGGAAGGAGATGAACATTCTGAAGTGAAGCACAAGGAT
 GATGAAGAAGAGGAATAAGAAAATCTTCGATAACTGGATGACGATCCAAGAACTTAACCCACGGCACA
 AAATCCCGGACGCGCACTAGAGTATACAATTCCTTCCTATCGGTGACTACTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239564 representing NM_001303141
 Red=Cloning site Green=Tags(s)

MKMEHKRMILLFSKFTLIHKPHGGRWYLVNGRDLSRATHDQAVEAFKTAKEPIVVQVLRRTPTKMFPP
 SESQLVDTGTQDITFEHIMALTKMSSPSPVLDPYLLPEEHPSAHEYDPNDYIGDIHQEMDREELELE
 EVDLYRMNSQDKLGLTVCYRTDDEDDIGIYISEIDPNSIAAKDGRIREGDRIIQINGIEVQNREEAVALL
 TSEENKNFSLLIARPELQLDEGWMDDDRNDFLDDLHMDMLEEQHHQAMQFTASVLQKKHDEDGGTTDTA
 TILSNQHEKDSGVGRDTESTRNDESSEQENNGDDATASSNPLAGQRKLTCSQDTLGSGDLPFSNESFISA
 DCTDADYLGIPVDECERFRELLELKCQVKSATPYGLYYPSGPLDAGKSDPESVDKELELLNEELRSIELE
 CLSIVRAHKMQQLKEQYRESWMLHNSGFRNYNTSIDVRRHELSDITELPEKSDKDSSAYNTGESCRSTP
 LTLEISPDNSLRRAAEGISCPSSSEGAVGTTEAYGPASKNLLSITEDPEVGTPTYSPSLKELDPNQPLESK
 ERRASDGSRSPTPSQKLGSAYLPSYHHSPYKHAHIPAHAQHYQSYMQLIQKSAVEYAQSQMSLVSMCKD
 LSSPTPSEPRMEWKVIRSDGTRYITKRPVRDRLLRERALKIREERSGMTTDDDAVSEMKGGRYWSKEER
 KOHLVKAKEQRRRREFMMQSRDLCKEQQAADDRKEMNILELSHKMMKKRNKKIFDNWMTIQELLTHGT
 KSPDGTRVYNSFLSVTTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001303141
ORF Size:	2364 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001303141.1](#), [NP_001290070.1](#)

RefSeq Size: 3408 bp

RefSeq ORF: 2367 bp

Locus ID: 23024

UniProt ID: [Q9UPQ7](#)

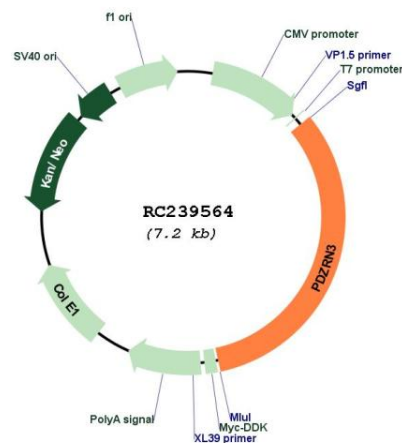
Cytogenetics: 3p13

Protein Families: Druggable Genome

MW: 90.4 kDa

Gene Summary: 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]

Product images:



Circular map for RC239564