

Primer	Sequence
1F	ACAACTGTTCGGGTCTGTGG
2F	ACCAGGAGCCTTGTAACAGC
1R	CAACTGTCTGAACGTCGGA
3R	TCGTGAGTTCGATGTTGGTG
2R	TGTTGGTGAAATCGGAGGAC
oligo(dT)17 adapter	GACTCGAGTCGACATCGATTTTTTTTTTTTTTTTTTT
adapter	GACTCGAGTCGACATCG
6F	ATGCATTCCCTCTACGGTTTATC
3'-UTR 1R	AGATTCAGCCCTAAAAACACTCT
7F	CACCGAATTC AATGCATTCCCTCTACGGTTT
6R	GCTCTAGATCAATTAACAGAAAGGAATGATATGA
N-6-Myc 1F	CACCGAATTCATTCGGCGATACGGACGAT
N-Myc 2F	CACCGAATTCAGGAAACAACATGACCACGG
CT-Trun 1R	GCTCTAGAGTCACGAGCCGAAAGTCGCG
Y142W sense	CTCACCAATGACCAGACACTATTCTGGTCAGGAATGTATAGCATG
Y142W anti-sense	CATGCTATACATTCCTGACCAGAATAGTGTCTGGTCATTGGTGAG
Y142H sense	CCAATGACCAGACACTATTCATTCAGGAATGTATAGCATG
Y142H anti-sense	CATGCTATACATTCCTGAATGGAATAGTGTCTGGTCATTGG
R52/53A sense	ATGATGATGCTGGTAGTCGCGTTGCGGCAGCGGACGGAAA
R52/53A anti-sense	TTTCCGTCCGCTGCCGCAACGCGACTACCAGCATCATCAT

Table S1. Sequences of oligonucleotide primers used in this study.

SpARC4	1	MHSLYGLSPSAPAYINKAFVIVVIAASLVVNSSGRLLP-FGDTDDDDAGSRVRRADGNM
AM588307.1	1	MYSSLGTLFAPGDINKAFIVVVIITSSLVANSFGRLLPAFDDVDTDNGQSRVRRANGDNM
AM591092.1	1	MYSSILGILFAPGDINKAFIVVVIITSSLVANSFGRLLPAFDDVDTDNGQSRVRRANGDNM
AM585924.1	1	MYSSILGILFAPGDINKAFIVVVIITSSLVANSFGRLLPAFDDVDTDNGQSRVRRANGDNM
SpARC4	60	TTELP-LNLGDGTTANLKAIFLGRCYDCEYCSSEEQAGLYDCSGLWDAFSSSFSYQEP CNS
AM588307.1	61	TTAASSWEVGRGTTTNLEEIFLGRCYDCEYCSDDQKGVHNCSRLWDAFSLSFYQEP CNS
AM591092.1	61	TTAAPSWEVGRGTTTNLEEIFLGRCYDCEYCSDDQKGVHNCSRLWDAFSLSFYQEP CNS
AM585924.1	61	TTAAPSWEVGRGTTTNLEEIFLGRCYDCEYCSDDQKGVHNCSRLWDAFSLSFYQEP CNS
SpARC4	119	VPEDFDYANMAFVPLTNDOTLFYSCMYSMAMAI GRQSSDFTNIELTMLGGLVNGITFCG
AM588307.1	121	DPEDFNAYTDMAFIPLAADOTLFYSCMYSIALAVGRQSSDFTNIELTMLGRLVNGITFCG
AM591092.1	121	DPEDFNAYTDMAFIPLAADOTLFYSCMYSIALAVGRQSSDFTNIELTMLGRLVNGITFCG
AM585924.1	121	DPEDFNAYTDMAFIPLAADOTLFYSCMYSIALAVGRQSSDFTNIELTMLGRLVNGITFCG
SpARC4	179	MVDAP
AM588307.1	181	QTDAP
AM591092.1	181	QTDAP
AM585924.1	181	QTDAP

Figure S1. Multiple sequence alignment of the deduced amino acid sequence of SpARC4 with that of 3 ESTs (identified by their accession numbers) from *Paracentrotus lividus*.