

**Supplementary Materials:**

**Table S1 The primer sequences for *PDSS2* promoter reporter construction**

Constructs	Primer sequences	Restriction site
P2031(-1768/+1263)	F:5'- GGGGTACCAGGGCATAGACTGTGTTTGATAC -3'	<i>Kpn</i> I site
	R:5'- CTAGGCTAGCTGGGGGTATCCAGAAGTGCCG -3'	<i>Nhe</i> I site
P764(-501/+263)	F:5'- GGCCCTGAGGACACGAGGGC -3'	<i>Kpn</i> I site
	R:5'- GGTACCTATCGATAGAGAAATGTTCTGGC -3'	<i>Nhe</i> I site
P464(-201/+263)	F:5'- GATACCGTGTGCAGAGGGACCA -3'	<i>Kpn</i> I site
	R:5'- GGTACCTATCGATAGAGAAATGTTCTGGC -3'	<i>Nhe</i> I site
P202(-201/+1)	F:5'- GCTAGCCCGGGCTCGAGATCTGCGATCT-3'	<i>Kpn</i> I site
	R:5'- TGCCGTAAAGACAGAGGCGGGTTGTTAAG -3'	<i>Nhe</i> I site
PDSS2-P202M1	F:5'- ACAACTGATCCCTGTCACTGACGACC -3'	<i>Kpn</i> I site
	R:5'- CTACGGCGAGTGGTCCCTCTGCAC -3'	<i>Nhe</i> I site
PDSS2-P202M2	F:5'- AATTTTTGGGAGGAGCTGAACCTCCC -3'	<i>Kpn</i> I site
	R:5'- CGCTCTGGGCCAGCAAAGGTCGTCAG -3'	<i>Nhe</i> I site
PDSS2-P202M3	F:5'- TAGAATCTGCGGGGCGTTCGCGGT -3'	<i>Kpn</i> I site
	R:5'- TGCTTTGGAGGTGAACCCGGGTTGGG -3'	<i>Nhe</i> I site
PDSS2-P202M4	F:5'- TTCTCGGGTACGCCGTAAAGTAGAG -3'	<i>Kpn</i> I site
	R:5'- CTAACCCGACAGGGGCGGTGCTTTG -3'	<i>Nhe</i> I site

**Table S2 The primer sequences for *RT-PCR* and *CHIP***

Gene	Primer sequences
GAPDH( <i>RT-PCR</i> )	F:5'- ACCTGACCTGCCGTCTAGAA -3'
	R:5'- TCCACCACCCTGTTGCTGTA -3'
Sp1( <i>RT-PCR</i> )	F:5'- GTGGAGGCAACATCATTGCTG -3'
	R:5'- GCCACTGGTACATTGGTCACAT -3'
PDSS2( <i>RT-PCR</i> )	F:5'- TCTAGCAAATGCCTGCAATG -3'
	R:5'- TCTGCTCCTTCCAAGTCGAT -3'
PDSS2( <i>CHIP</i> )	F:5'- CGCCCACAACCTGACCCTGTCA -3'
	R:5'- GAATGCGGCCTGCCGTAAAGAC -3'