

Additional file 2. Primer information for qPCR and KASPar detection

Gene ¹	Primer sequence ² (5'-3')	Product size (bp)	Annealing temperature (°C)	Purpose ³
<i>PROM1</i>	F: ACTCTCCTGAATGTGGTGCCAG	138	60	qRT-PCR
	R: TTTGGGTTTGAGATGCTCGTAA			
<i>PAK5</i>	F: TCCAACTCCCTGAGGAAGGAA	231	60	qRT-PCR
	R: CAATACGTGCCCATTTGCCT			
<i>SLIT1</i>	F: CCATGTGCGTGTCAGTTACGACC	80	60	qRT-PCR
	R: ACTGCCCATCGTTGATCGTCTC			
<i>PGAM1</i>	F: TCCCAATTCCACATTAGCCAT	172	60	qRT-PCR
	R: CTGCTCCTTAGTAATAAACAC			
<i>UBTD1</i>	F: AGAGTTCCCGCTGAAGGTGC	224	60	qRT-PCR
	R: GCTGGTTGATGATGACCTGG			
<i>ADGRB3</i>	F: TCAACATTGCCTGGAAACGTCA	165	60	qRT-PCR
	R: CGCCCCTCTCAAATTATCATCCG			
<i>FOXF1</i>	F: CCTGACGCTCAGCGAGATCTA	194	60	qRT-PCR
	R: CGAACATGAACTCGCTGGC			
<i>PRDX6</i>	F: GCTCCATCATACTGTGTTGACC	173	60	qRT-PCR
	R: AACCCCAAGTTCTATTCCCTC			
<i>PTGS1</i>	F: CATCCACTTTCTGCTGACGC	110	60	qRT-PCR
	R: GGATAAGGTTGGAACGCACTG			
<i>SMAD7</i>	F: CCCATCACCTTAGCCGACTC	101	60	qRT-PCR
	R: CACAGCATCTGGACAGTCAGT			
<i>LDH</i>	F: ACTGTTATTGCCTCAAACCCTGT	372	60	qPCR
	R: CGCTAATGCAGCACCAATTCCG			
<i>β-tubulin</i>	F: TCACCCAGCAGGTCTTCGATG	289	60	qPCR
	R: AACTGCTCTGAGATACGCTTG			
<i>β-actin</i>	F: TCCGTGACATCAAGGAGAAGC	267	60	qRT-PCR
	R: CCGTGTTGGCGTAGAGGT			
chr.14: g.13215150A>G	AlleleX: GAAGGTGACCAAGTTCATGCTGAGTAACAGCCTGGACAGGCA	79		KAspar
	AlleleY: GAAGGTCTGGAGTCAACGGATTAGTAACAGCCTGGACAGGCG			
	Common: GAGGGAGACCGCATACAGATG			
chr.14: g.13215157A>G	AlleleX: GAAGGTGACCAAGTTCATGCTGTACGGAGGGAGGGGCT	90		KAspar
	AlleleY: GAAGGTCTGGAGTCAACGGATTTACGGAGGGAGGGGCC			
	Common: TCCTCTGCAAGCTCCAGGA			

¹*PROM1* = prominin 1; *PAK5* = p21 (RAC1) activated kinase 5; *SLIT1* = slit guidance ligand 1; *PGAM1* = phosphoglycerate mutase 1; *UBTD1* = ubiquitin domain containing 1; *ADGRB3* = adhesion G protein-coupled receptor B3; *FOXF1* = forkhead box F1; *PRDX6* = peroxiredoxin 6; *PTGS1* = prostaglandin-endoperoxide synthase 1; *SMAD7* = SMAD family member 7; *LDH* = lactate dehydrogenase.

²F indicates the forward primer, and R indicates the reverse primer; AlleleX, AlleleY and Common represent the wild-type, mutant-type allele-specific up stream PCR primers and a common downstream primer at this locus, respectively.

³qRT-PCR = real-time reverse transcription polymerase chain reaction; qPCR = quantitative PCR;
KAspar = competitive allele specific FRET-based PCR assays.