Primer number	Primer sequence	Target Gene	Annealing temperature
o1680	AGGTACAGATGCTGTCGCAG	h_*PRM1*	65°C
o1681	AGTCTGGTAACATTCTCAGGC	h_*PRM1*	62°C
o2216	TGAAAGCCTTGTACCCTGGC	m_*Hmbs*	66°C
o2217	GAGTGAACGACCAGGTCCAC	m_*Hmbs*	66°C
o4087	TCTTCTACTCCTCTGCCAAC	h_*TMPO* (LAP2)	61°C
o4088	CCACCAGAGGGAGTAGTTCC	h_*TMPO* (LAP2α)	65°C
o4090	GTTAATGCCTGCAGAGGTCC	h_*TMPO* (LAP2β)	64°C
o4092	TCCAGGACCATTACGTGGAC	h_*LEMD2*	65°C
o4093	CTCGGTCCCAGACACGCTTC	h_*LEMD2*	69°C
o4094	TTGGTGAAGTCCTGGGCAAG	h_*BANF1*	66°C
o4095	GAAGGCATCCGAAGCAGTCC	h_*BANF1*	67°C
o4096	TGGGTGGATGGCATCAGCC	h_*BANF2*	69°C
o4097	CCTCACACTCAGTGGCACC	h_*BANF2*	66°C
o4367	AGGTTCGAATTCGCTAGCGAGATGGACGACATGTCTCC	h_*BANF2* +*Nhe*I	63°C
o4368	ATTTGACGGATCCCAGGAAGCAGGCACACCAC	h_*BANF2* +*Bam*HI	67°C
o4388	AGGTTCGAATTCGCTAGCGATCAAGATGACAACCTCCC	h_*BANF1* +*Eco*RI-*Nhe*I	62°C
o4389	ATTTGACGGATCCTCACAAGAAGGCGTCGCACC	h_BANF1 +*Bam*HI	69°C
o4399	ATTTGACGGATCCCAAGAAGGCGTCGCACCAC	h_*BANF1* +*Bam*HI	70°C
o4426	GCCCAATACTACCTTCCACC	h_*LEMD1*	63°C
o4427	AAGCCTCAGGCCATTTTTTGAG	h_*LEMD1*	64°C
o4434	GCCTCAAGTCTCTTCTTGCC	m_*Lemd1*	64°C
o4435	GATTGCATAGACTTCAGACAACC	m_*Lemd1*	61°C
o4491	GGCTTCAATGGAGTGTTGGA	h_*LEMD3*	63°C
o4493	CATAGCAGTGCCCTTGCTTC	h_*ANKLE1*	64°C
o4495	ATGTCCTTGAGTCCCAGCAG	h_*ANKLE2*	65°C
o4496	ACTGAGATCTGGCAGCTGAG	h_*ANKLE2*	65°C
o4500	AACCATGATTGCAGACATTG	h_*ANKLE2*	59°C
o4501	CCCTCACGGAAATGGAATTG	h_*ANKLE2*	62°C
o4502	CATGAGCTGGGGTATCCCTG	h_*ANKLE2*	66°C
o4503	AGTTCGAGACCAGCCTGGTC	h_*ANKLE2*	67°C
o4504	GGAAAACTCCACCTCGAGAG	h_*ANKLE2*	63°C
o4522	AGGTCTCATATGAAGATGGACGACATGTCGCC	m_*Banf2*	66°C
o4523	TTTGACGAATTCTTAGGAAACAGGAGCACCACT	m_*Banf2*	64°C
o4527	CGGTAGACTGTCGGGTCTGG	h_*ANKLE2*	68°C
o4528	AGAGCTGTGACACCTGCCTC	h_*ANKLE2*	68°C
o4542	TTGGCAGGTACCGAAATGACAATGGATGCTCTGTTGG	h_*ANKLE2*_Δ1-64 +*Kpn*I	65°C
o4573	TTGGCAGGTACCATGCTGTGGCCGCGGCTGG	h_*ANKLE2* +*Kpn*I	65°C
o4579	ATTGCAGGATCCGACAACTACGCAGATCTTTCGG	h_*EMD* +*Bam*HI	67°C

o4580	ATTGAACTCGAGTCATGGCTCCCTCTAGAAGG	h_*EMD* +*Xho*I	64°C
o4609	AAAGTGCTCCTCCAAGCCAG	h_*PTPRC*	59°C
o4610	GCCAGAAATGCTATCAGTGCCTTAG	h_*PTPRC*	60°C
o4611	GCTTCGCGTCCAGACAGG	h_*KIT*	61°C
o4612	CGTGTATTTGCCGGTGTTGG	h_*KIT*	59°C
o4613	CTTTGACGCCGAGAGCTACA	h_*CDH1*	59°C
o4614	TTTGAATCGGGTGTCGAGGG	h_*CDH1*	59°C
o4615	ATGCTCCTCGAGCCATTCAGTTGGATTTTCTAGGGTCAAC	h_*TMPO* (LAP2β) +*Xho*I	66°C
o4659	ATGGTCCTCGAGTTAACCAAACAGCGACTTATTTTC	h_*LEMD1* +*Xho*I	59°C
o4661	AGGTCTGGTACCATGGTGGATGTGAAGTGTCTG	h_*LEMD1* +*Kpn*I	63°C
o4663	CCTAGACTCGAGCTACAGGAAGCAGGCACACCAC	h_*BANF2* +*Xho*I	71°C
o4667	CTGTCGCCTGCCAGCTCTG	h_*LBR*	70°C
o4668	GGATGATGTCCATGGTCGTC	h_*LBR*	63°C
o4669	ACCGAGCCCCTCCTCGCAG	h_*LBR*	72°C
o4671	GGGAGGTGCTGTCGTGGCTC	h_*LBR*	72°C
o4702	GGTTATAAGCTTACAACCTCCCAAAAGCACC	h_*BANF1* +*Hin*dIII	64°C
o4710	AGGTCAGGATCCCTACAGGGCGGCAAGCTCA	h_*ANKLE2* +*Bam*HI	68°C
o4711	ATGGCTAAGCTTGCCGGCCTGTCGGACCT	h_*LEMD2* +*Hin*dIII	72°C
o4712	TTGGCAGGTACCGGGGCTTATCGCTCTGAGTC	h_*LEMD2* +*Kpn*I	70°C
o4965	GCTACTGCTCGTCTTCCTGG	h_*LEMD2*	66°C
o4966	GTAGAGTTCATGCAGCAGCTC	h_*LEMD2*	64°C
o5022	ATCCGGGATCCCCGGAGTTCCTGGAAGACC	h_*TMPO* (LAP2β) +*Bam*HI	66°C
o5023	GACACCGTGTCTAAAGATTCGG	h_*LEMD3*	63°C
o5024	GTGCCCACTACTTGTCGATG	h_*LEMD3*	64°C
o5026	GCAAGCTGTGCCAATCGATCA	h_*LEMD3*	67°C
o5027	CAAGGTGCGTCAGATCTTGG	h_*ANKLE1*	64°C
o5028	AATCGACCGACCAGGCGGTG	h_*ANKLE1*	71°C
o5029	AGCGCAGCAGCTCCTCTACT	h_*ANKLE1*	69°C
o5095	CCGAGCTGACCACCTTGCTG	h_*EMD*	69°C
o5096	CTGGGTCTCGTACTCGAAGAT	h_*EMD*	64°C
o5097	GCTGTCCGCCAGTCAGTGAC	h_*EMD*	69°C
o5098	GGTAGTGCGTGATGCTCTGG	h_EMD	66°C
o5099	AGCATGCATCTCCTATTCTGCC	h_*TMPO* (LAP2β)	65°C
o5100	GATTGGTCTGCGGCAACTAGCA	h_*TMPO* (LAP2β)	67°C
o5101	CGGACTTCTCCAGTGACGAAGAG	h_*TMPO* (LAP2)	67°C
o5103	CCACAATAGGACCAGGATTCACTCC	h_*TMPO* (LAP2)	67°C
o5111	CCCCCGCCTCAGGTGAAATG	h_*ANKLE2*	69°C
o5112	GGGTCCACATTTCAATCCGGCTTTG	h_*ANKLE2*	69°C
o5186	GGTTATAAGCTTGACGACATGTCTCCCAGGCTG	h_*BANF2* +*Hin*dIII	70°C

o5322	ATGGCTAAGCTTATGGCCGGCCTGTCGGACCT	h_*LEMD2* +*Hin*dIII	78°C
o5323	TTGGCAGGTACCTCGCTCTGAGTCAGAGAAGG	h_*LEMD2* +*Kpn*I	66°C
o5350	ATTTGACCATATGTTCCTCTCCGAACCCATTGGAG	h_*BANF2* +*Nde*I	69°C
o5351	ATTTGACCTCGAGCAGGAAGCAGGCACACCAC	h_*BANF2* +*Xho*I	69°C
o5352	GTTCCAGGTACCATGCCAAGTAGGAAATTTGCCGATG	h_*LBR* +*Kpn*I	68°C
o5353	AAGTCCGGATCCGTAGATGTATGGAAATATACGGTAGGGCAC	h_*LBR* +*Bam*HI	68°C
o5354	GTTCCAGGTACCCCAAGTAGGAAATTTGCCGATGGTG	h_*LBR* +*Kpn*I	68°C
o5355	AAGTCCGGATCCTTAGTAGATGTATGGAAATATACGGTAGGGCAC	h_*LBR* +*Bam*HI	68°C

Table S1. Primer sequences used in RT-PCR, DNA constructs and sequencing. Adaptors used for constructs are underlined and the name of the restriction enzyme site in the adaptor is preceded by a + after the target gene name. Target gene prefix: h=human; m=mouse.