

10. Appendix

10.1. Preparation of Poly-l-lysine-coated glass slides for cell array use

- 1) Clean the normal microscopy slides with the cleaning solution (70 ml 1,75 M NaOH, 240 ml Ethanol and 160 ml sterile H₂O) for 2 hours at room temperature, followed by three times wash with sterile H₂O.
- 2) Wash the slides with Acetone for 5 minutes, and let them dry shortly in the air.
- 3) Immerse the slides in the Vectabond Solution (350 ml Acetone and 7 ml Vectabond™ (VECTOR Laboratories, Inc., Burlingame, USA)) for 5 minutes.
- 4) Rinse the slides shortly by sterile H₂O for three times
- 5) Dry the slides in a 37 °C oven
- 6) Treat the slides with Poly-l-lysine Solution (20 ml Poly-l-lysine, 20 ml PBS, and 160 ml H₂O) in a plastic containers at 4°C for 45 minutes
- 7) Wash the slides with H₂O and let them dry in a sterile environment
- 8) Incubate the slide at 55°C for 40 minutes
- 9) Keep the slides in dark with vacuum before use

10.2. List of primer pairs used for the construction of Chr21 protein expression clones

Table A. 1 Primers used for the amplification of 89 Chr21 ORFs

Gene	Accession	Primer Name ^a	Fwd ^b	Rev
<i>SAMSN1</i>	NM_022136	SAMSN1_NM_022136	AAAAGCAGGCATGCTCAAGAGA AAGCCATCCAATG	AAGAAAGCTGGGTAATGCGTGTT AGTCACTTGGC
<i>NRIP1</i>	X84373		Gateway™ entry clone obtained from RZPD	
<i>NRIP1</i>	X84373	NRIP1_KC_fwd	AAAAGCAGGCACCATGACTC ATGGAGAAGAGCTTGG	AAGAAAGCTGGGTTTTCTGATT TTTCTTTATCGTTAGCAC
<i>BTG3</i>	D64110	BTG3_D64110	AAAAGCAGGCATGAAGAATG AAATTGCTGCC	AAGAAAGCTGGGTAAGTTAGTG AGGTGCTAACATGT
<i>C21orf91</i>	AF239726	C21orf91_NM_01744 7	AAAAGCAGGCATGAACGAAG AGGAGCAGTTTGTAAAC	AAGAAAGCTGGGTAGCTGTTCG ATGGCAACGTG
<i>PPIA3L</i>	X52851		Gateway™ entry clone obtained from RZPD	
<i>PPIA3L</i>	X52851	PPIAL3_C	AAAAGCAGGCACCATGGTCA ACCCACCGTGTT	AAGAAAGCTGGGTTTTTCGAGTT GTCCACAGTCAGC
<i>C21orf74</i>	AY077696	C21orf74_AY077696	AAAAGCAGGCATGGCTTATGT CTTTAATCTCAGCT	AAGAAAGCTGGGTCATTCATTT ATTTAGCTGCTCATGTAA

<i>ATP5A1</i>	AL110183	ATP5A_AL110183	AAAAGCAGGCATGATTCTTCA GAGGCTCTTCA	AAGAAAGCTGGGTTTTATTCTT CAGGCTGGGG
<i>GABPA</i>	NM_002040	GABPA_KC_fwd	AAAAGCAGGCACCATGACTA AAAGAGAAGCAGAGGAGC	AAGAAAGCTGGGTTATTATCCTT TTCCGTTTGCAGAGAAG
<i>GABPA</i>	NM_002040	GABPA_NM_002040	AAAAGCAGGCATGACTAAAA GAGAAGCAGAGGAGC	AAGAAAGCTGGGTGGGGCTCAA TTATCCTTTTCCG
<i>C21orf127</i>	AF139682	DNMTA1_AF139682	AAAAGCAGGCATGGCAGGGG AGAACTTCGC	AAGAAAGCTGGGTGTATGCTAA GACTTGGTGAACCTGA
<i>C21orf6</i>	AK000056	C21orf6_BC012546	AAAAGCAGGCATGAAAATTG AGCTGTCCATGCA	AAGAAAGCTGGGTACTACTCTT GATGTCATTGTCCTTC
<i>USP16</i>	NM_006447	USP16_NM_006447	AAAAGCAGGCATGGGAAAGA AACGGACAAAGGGA	AAGAAAGCTGGGTCCATAAATG TGTTTCCAGAAAAAGTGC
<i>CCT8</i>	D13627	CCT8_C	AAAAGCAGGCACCATGAGTA AACAAATATGGTAATGAAG	AAGAAAGCTGGGTTATCATTTTG GTCATCATCCCAGTC
<i>CCT8</i>	D13627	CCT8_D13627	AAAAGCAGGCATGAGTAAAC AATATGGTAATGAAGTA	AAGAAAGCTGGGTTCAATCAT TTTGGTCATCATCCC
<i>C21orf7</i>	AF269164	C21orf7_AF269164	AAAAGCAGGCATGATCAGCA CAGCCAGGGTA	AAGAAAGCTGGGTAAAAATTTA AAGTTAGGACGAGCCC
<i>C21orf7</i>	AF269164	C21orf7_C	AAAAGCAGGCACCATGATCA GCACAGCCAGGGTAC	AAGAAAGCTGGGTTGGACGAGC CCTGCCTCTTC
<i>BACH1</i>	AB002803	BACH1_KC_fwd	AAAAGCAGGCACCATGTCTCT GAGTGAGAACTCGG	AAGAAAGCTGGGTTCTCATCAG TAGTACATTTATCAGTC
<i>C21orf9</i>	AY077697	C21orf9_AY077697	AAAAGCAGGCATGGAGGATG CAGCAAAAGG	AAGAAAGCTGGGTGCTGAAACC CCTAAATTAGAGC
<i>C21orf108</i>	NM_014825	KIAA0539_NM_014 825_	AAAAGCAGGCATGCTCCTCAC CGCCGTAC	AAGAAAGCTGGGTCCGGCAGGA GTCAAGCATCT
<i>C21orf63</i>	BC038710	C21orf63_BC038710	AAAAGCAGGCATGCTTCTGCC GGGACGCGCACGCCAACC	AAGAAAGCTGGGTGTTTTCAGT AGAACTGGCCCATG
<i>C21orf77</i>	NM_018277	C21orf77_NM_01827 7_	AAAAGCAGGCATGGAGCGCC CTCTCATCTG	AAGAAAGCTGGGTGACAGATGG CACCAGCCTCA
<i>C21orf59</i>	AF282851	C21orf59_AF282851	AAAAGCAGGCATGGTTCTGCT GCACGTGA	AAGAAAGCTGGGTTGGTGAAC TCATCTTGGTCTC
<i>C21orf66</i>	AF153208	C21orf66_KC_fwd	AAAAGCAGGCACCATGGCAG ATCACCTTGAAGGC	AAGAAAGCTGGGTTAGAGAAGA CAACACAAGGCCTG
<i>C21orf66</i>	AF153208	C21orf66_NM_01332 9_	AAAAGCAGGCATGGCAGATC ACCTTGAAGGCC	AAGAAAGCTGGGTAGGCATGCA GAAACATGACTGG
<i>C21orf55</i>	NM_017833	C21orf55_AF462153	AAAAGCAGGCATGAATACAA TGTATGTGATGATGG	AAGAAAGCTGGGTTAAACATCA AAATGATCGTATTTTAATAA
<i>CRYZL1</i>	AK001293	CRYZL1_ak001293_	AAAGCAGGCATGAAAGGCTT ATATTTCCAAC	GCTGGGTTAATTAACCCACTGA GGTCTGAAAAC
<i>ITSN1</i>	AF114488	ITSN_AF114488	AAAAGCAGGCATGGCTCAGTT TCCAACACCTTT	AAGAAAGCTGGGTTGATTTCATT GCTGGCTTGGGTC
<i>MRPS6</i>	BC010076	MRPS6_BC010076	AAAAGCAGGCATGCCCCGCT ACGAGCT	AAGAAAGCTGGGTAATCTTCTC ACTTCTCCTCTTC
<i>DSCR1</i>	NM_004414		Gateway™ entry clone obtained from RZPD	
<i>C21orf96</i>	NM_025143	C21orf96_NM_02514 3_	AAAAGCAGGCATGGCCTCGG CCAAGGATG	AAGAAAGCTGGGTCCCCTGAGC TTGGGCCTATC
<i>C21orf19</i>	AF363446	C21orf19_AF363446	AAAAGCAGGCATGTCCAACC GAGTGGTCTGC	AAGAAAGCTGGGTGAGCTTCAG TGGACCGTGAGT
<i>CHAF1B</i>	NM_005441	CHAF1B_NM_00544 1_	AAAAGCAGGCATGAAAGTCA TCACTTGTGAAATAGCCTG	AAGAAAGCTGGGTTCCATGGAA GCCCTGGTCTC
<i>HLCS</i>	NM_000411	HLCS_C	AAAAGCAGGCACCATGGAAG ATAGACTCCACATGG	AAGAAAGCTGGGTTCCGCCGTT TGGGGAGGATG
<i>HLCS</i>	NM_000411	HLCS_NM_000411_	AAAAGCAGGCATGGAAGATA GACTCCACATGGATAATG	AAGAAAGCTGGGTGATTCCAG ATGCATGGGCAC
<i>DSCR3</i>	NM_006052	DSCR3_NM_006052 _	AAAAGCAGGCATGGGGACCG CCCTGGAC	AAGAAAGCTGGGTGAGATGGCC ACTCCCCTTCT
<i>DYRK1A</i>	NM_001396	DYRK1A_NM_0013 96_	AAAAGCAGGCATGCATACAG GAGGAGAGACTTCA	AAGAAAGCTGGGTGCTTTGCC TCTTGTAGCGG
<i>DSCR4</i>	AB000099	DSCR4_AB000099	AAAAGCAGGCATGTCGTTAAT CATCTTGACGAG	AAGAAAGCTGGGTCTTCAGGT TGATGGGCTTG
<i>ETS2</i>	NM_005239	ETS2_C	AAAAGCAGGCACCATGAATG ATTTCCGAATCAAGAAT	AAGAAAGCTGGGTTGTCCTCCG TGTCGGGCTGG

<i>ETS2</i>	NM_005239	ETS2_NM_005239_	AAAAGCAGGCATGAATGATT CGGAATCAAGAATATGGACC	AAGAAAGCTGGGTGCCACTGCT TCTTGGCCACT
<i>DSCR2</i>	AJ006291	DSCR2_AJ006291	AAAAGCAGGCATGGCGGCCA CGTTCTTC	AAGAAAGCTGGGTTGTTAAGA TCATGTATAAATGTTACTC
<i>WDR9_3'</i>	NM_033656_5 663..6949	WDR9_NM_018963_	AAAAGCAGGCATGAACCCAA TTTCAGGAAATCTGAACTG	AAGAAAGCTGGGTGCCAGCTTT CACCATAAATGCC
<i>SH3BGR</i>	BC006371	SH3BGR_BC006371	AAAAGCAGGCATGCCTCTGCT GCTCCTT	AAGAAAGCTGGGTGAAAAGGCC TAGGAATCTTCG
<i>PCP4</i>	X93349	PCP4_X93349	AAAAGCAGGCATGAGTGAGC GACAAGGTG	AAGAAAGCTGGGTTCCCACTAG GACTGAGACCC
<i>MX1</i>	NM_002462	MX1_C	AAAAGCAGGCACCATGGTTGT TTCCGAAGTGGAC	AAGAAAGCTGGGTTACCGGGA ACTGGGCAAGC
<i>MX1</i>	NM_002462	MX1_NM_002462_	AAAAGCAGGCATGGTTGTTTC CGAAGTGGACATC	AAGAAAGCTGGGTTCTGAGGGT GGGGCTCTGTC
<i>C21orf25</i>	XM_032945	C21orf25_XM- 032945	AAAAGCAGGCATGCAGGGCT ACACGGCCTG	AAGAAAGCTGGGTCCTACGTGC AGGGCTCCAC
<i>TFF3</i>	L08044	TFF3_L08044	AAAAGCAGGCATGCTGGGGC TGGTCCTG	AAGAAAGCTGGGTTGGAGGTGC CTCAGAAGGT
<i>TFF2</i>	BC032820	TFF2_BC032820	AAAAGCAGGCATGGGACGGC GAGACGCC	AAGAAAGCTGGGTTCTTAGTAA TGGCAGTCTTCCACA
<i>TFF1</i>	X00474	TFF1_X00474	AAAAGCAGGCATGGCCACCA TGGAGAACAA	AAGAAAGCTGGGTTGTCTAAAA TTCACACTCCTCTTC
<i>UBASH3A</i>	NM_018961	UBASH3A_NM_018 961_	AAAAGCAGGCATGGCAGCGG GGGAGACG	AAGAAAGCTGGGTTTACAAAGG CGAAAAGCCGGA
<i>PDE9A</i>	BC009047	PDE9A_BC009047	AAAAGCAGGCATGGGATCCG GCTCCTCCA	AAGAAAGCTGGGTCCGCTTTCCT CAGGCACA
<i>PDE9A</i>	BC009047	PDE9A_C	AAAAGCAGGCACCATGGGAT CCGGCTCCTCCAG	AAGAAAGCTGGGTTGGCACAGT CTCCTTCACTG
<i>WDR4</i>	BC006341	WDR4_BC006341	AAAAGCAGGCATGGCGGGCT CTGTGGG	AAGAAAGCTGGGTCACGATCAG CAACTTAGCG
<i>PKNOX1</i>	BC007746	PKNOX1_BC007746	AAAAGCAGGCATGATGGCTA CACAGACATTAAG	AAGAAAGCTGGGTCCCCTACTG CAGGGAGTCA
<i>PKNOX1</i>	BC007746	PKNOX1_KC_fwd	AAAAGCAGGCACCATGATGG CTACACAGACATTAAG	AAGAAAGCTGGGTTCTGCAGGG AGTCACTGTTCTC
<i>U2AF1</i>	BC001923	U2AF1_BC001923	AAAAGCAGGCATGGCGGAGT ATCTGGCCT	AAGAAAGCTGGGTGGCTCAGAA TCGCCCAGA
<i>SNF1LK</i>	U11494_ex	SNF1LK_U11494ex	AAAAGCAGGCATGGTTATCAT TTCGGAGTTCAG	AAGAAAGCTGGGTGTCTGCTC CTCCTTAGGC
<i>HSF2BP</i>	AB007131_ex		Gateway™ entry clone obtained from RZPD	
<i>HSF2BP</i>	AB007131_ex	HSF2BP_KC_fwd	AAAAGCAGGCACCATGGGCG AAGCGGGCGCCGC	AAGAAAGCTGGGTTACATTAT GCTCCAGAGTGGCGAG
<i>KIAA0179</i>	XM_035973	KIAA0179_XM- 035973	AAAAGCAGGCATGGCCCCCG CCATGCAGCCGGCCGAGATC	AAGAAAGCTGGGTTCTCAGAA GAAATCCATAGCCC
<i>PDXK</i>	BC000123	PDXK_BC000123	AAAAGCAGGCATGGAGGAGG AGTGCCCG	AAGAAAGCTGGGTGGGGCCCT CACAGCAC
<i>C21orf97</i>	AK024977	C21orf97_AK024977	AAAAGCAGGCATGTCCCCTTC CATCTTGACC	AAGAAAGCTGGGTACCTCTGCC TCCCATCACCAA
<i>D21S2056E</i>	BC000380	D21S2056E_BC0003 80	AAAAGCAGGCATGGTTTCGCG CGTGCA	AAGAAAGCTGGGTCACATCACT CCCTGCGTTTC
<i>C21orf33</i>	BC003587	C21orf33_BC003587	AAAAGCAGGCATGGCGGGCTG TGAGGGC	AAGAAAGCTGGGTTCCATGCGC GTCACCTTC
<i>DNMT3L</i>	BC002560	DNMT3L_BC002560	AAAAGCAGGCATGGCGGCCA TCCCAGC	AAGAAAGCTGGGTTGACTCATT TATAAAGAGGAAGTGA
<i>DNMT3L</i>	BC002560	DNMT3L_KC_fwd	AAAAGCAGGCACCATGGCGG CCATCCCAGCCCTG	AAGAAAGCTGGGTTTAAAGAGG AAGTGAGTTCTGTTGAAAAATA C
<i>C21orf30</i>	AL117578_ex	C21orf30_AL117578 ex	AAAAGCAGGCATGAGCTGCC CACCGTCTC	AAGAAAGCTGGGTGGGCATCAG GAAGCTAAGCC
<i>UBE2G2</i>	AF032456	UBE2G2_AF032456	AAAAGCAGGCATGGCGGGGA CCGCGCTCAAGAGG	AAGAAAGCTGGGTGTCTCACAG TCCCAGAGACTT
<i>C21orf69</i>	AY035381	C21orf69_AY035381	AAAAGCAGGCATGGCTTGCT CGTCA	AAGAAAGCTGGGTAGGTTCATGG CTCCCTGCTATC

<i>ADARB1a</i>	NM_001112	ADARB1a_NM_001112_	AAAAGCAGGCATGGATATAG AAGATGAAGAAAACATGAGT TC	AAGAAAGCTGGGTCCGTGTCCC CCTACTCCCTC
<i>PCBP3</i>	BC012061	PCBP3_BC012061	AAAAGCAGGCATGGAGTCCA AGGTCTCAGAA	AAGAAAGCTGGGTCTGGGTAGG ATTACAGCGTG
<i>PCBP3</i>	BC012061	PCBP3_C	AAAAGCAGGCACCATGGAGT CCAAGGTCTCAGAA	AAGAAAGCTGGGTTCAGCGTGC CCATCCCGGTG
<i>MCM3APAS</i>	NM_018118	MCM3APAS_NM_018118_	AAAAGCAGGCATGACATATA ACATCCAACAAGGGGC	AAGAAAGCTGGGTTCATGTTC CCTCTGTCCTGG
<i>MCM3AP</i>	AB005543	MCM3AP_AB005543	AAAAGCAGGCATGCGGGCTTT CCCTGCTG	AAGAAAGCTGGGTTCAAATGTC CACCATGTCTAGCAGCG
<i>RBM11</i>	BC030196	RBM11_BC030196	AAAAGCAGGCATGTTCCCTGC TCAGGAGGAG	AAGAAAGCTGGGTACTAGTAT CTTTCTTCTTCTAGACT
<i>STCH</i>	NM_006948	STCH_NM_006948_	AAAAGCAGGCATGGCCAGAG AGATGACGATCTTA	AAGAAAGCTGGGTTCAAACAGG ATCAATCTGGTCACG
<i>CXADR</i>	BC010536	CXADR_BC010536	AAAAGCAGGCATGGCGCTCCT GCTGTG	AAGAAAGCTGGGTAGGCTCTAT ACTATAGACCCATC
<i>CHODL</i>	BC009418	C21orf68_BC009418	AAAAGCAGGCATGAGCCGCG TGGTCTC	AAGAAAGCTGGGTAGTTATTAT ACTTCCATGCCACTTT
<i>C21orf71</i>	AF086441_ex	C21orf71_AF086441	AAAAGCAGGCATGGGCTCAC CAATTAGACATAA	AAGAAAGCTGGGTATAAAAATGG CTCACAAGTCACAG
<i>MRPL39a</i>	NM_017446	MRPL39_AK000458	AAAAGCAGGCATGGAGGCGC TGGCCAT	AAGAAAGCTGGGTAGAAAGTTA TTAGGTAGATGTACTTC
<i>APP</i>	NM_000484	APP_NM_000484_	AAAAGCAGGCATGCTGCCCG GTTTGGCAC	AAGAAAGCTGGGTGCACAGCTG TCAAAAAGGCGA
<i>CYYR1</i>	AF401639	CYYR1_BC036761	AAAAGCAGGCATGGACGCTC CGAGGCTAC	AAGAAAGCTGGGTATAGATTAT TTCCTTGCCTTTCCAG
<i>CLDN17</i>	AJ250712	CLDN17_AJ250712	AAAAGCAGGCATGGCATTTTA TCCCTTGCAAATTG	AAGAAAGCTGGGTTTAGACATA ACTGGTGGAGGTCTTAC
<i>CLDN17</i>	AJ250712	CLDN17_Kozak_C	AAAAGCAGGCACCATGGCAT TTTATCCCTTGCAAATTG	AAGAAAGCTGGGTGACATAAC TGGTGGAGGTCTTAC
<i>CLDN8</i>	NM_012132	CLDN8_BC020866	AAAAGCAGGCATGGCAACCC ATGCCCTTAGAAAT	AAGAAAGCTGGGTAAACATACA CAACTACACATACTGACT
<i>CLDN8</i>	NM_012132	CLDN8_Kozak_C	AAAAGCAGGCACCATGGCAA CCCATGCCTTAGAAAT	AAGAAAGCTGGGTTCACATACT GACTTCTGGAGTAG
<i>KRTAP6-1</i>	D86419_ex	C21orf103_D86419ex	AAAAGCAGGCATGTGTGGCA GCTACTACGGA	AAGAAAGCTGGGTATGGCATCC TCAATAATAGTAGCC
<i>SOD1</i>	X02317	SOD1_X02317	AAAAGCAGGCATGGCGACGA AGGCCGT	AAGAAAGCTGGGTGAATGTTTA TTGGGCGATCCC
<i>C21orf62</i>	AF231922	C21orf62_AF231922	AAAAGCAGGCATGGCACCAC CTTCCAGGCA	AAGAAAGCTGGGTGATACCTAT CTCACGGCCTTATTTT
<i>IL10RB</i>	Z17227	IL10RB_Z17227	AAAAGCAGGCATGGCGTGGA GCCTTGG	AAGAAAGCTGGGTCTCAGAG CCTAGCTTTGG
<i>IFNGR2</i>	BC003624	IFNGR2_BC003624	AAAAGCAGGCATGCGACCGA CGCTGCT	AAGAAAGCTGGGTGTTGGTTCAA AGCGTTTGGAGA
<i>C21orf4</i>	AF045606	C21orf4_AF045606	AAAAGCAGGCATGGCAGGCT TCCTAGATAAT	AAGAAAGCTGGGTAGAAGTGTAT CTCAGGTCCATAG
<i>RPS5L</i>	U14970_ex	RPS5L_U14970ex	AAAAGCAGGCATGCAGATCA ATGGCATTTC	AAGAAAGCTGGGTGAAAATCAG CGGTTGGACTTGT
<i>KCNE2</i>	NM_005136	KCNE2_Kozak_C	AAAAGCAGGCACCATGTCTACT TTATCCAATTTACACAGACG	AAGAAAGCTGGGTGTTGGGGACA TTTTGAACCCAGCCG
<i>KCNE2</i>	NM_005136	KCNE2_NM_005136_	AAAAGCAGGCATGTCTACTTT ATCCAATTTACACAGACG	AAGAAAGCTGGGTGCTGGGCACT GGCATCTCTTC
<i>KCNE1</i>	BC036452	KCNE1_BC036452	AAAAGCAGGCATGATCCTGTG TAACACCACAGC	AAGAAAGCTGGGTACATATCAC GACCTGTAGCTCTC
<i>KCNE1</i>	BC036452	KCNE1_C	AAAAGCAGGCACCATGATCCT GTCTAACACCACAG	AAGAAAGCTGGGTTCGACCTGT AGCTCTCCAGG
<i>CLDN14</i>	AF314090	CLDN14_AF314090	AAAAGCAGGCATGGCCAGCA CGGCCGTGCAGCTTCTG	AAGAAAGCTGGGTGTTGGGGAC TCACACGTAGT
<i>PSMD4</i>	AF050199	PSMD4_AF050199	AAAAGCAGGCATGGTTACAG ATAACACACATCTAACC	AAGAAAGCTGGGTGCTCTCATC AGTTCTCCGATTTT
<i>DSCR5</i>	NM_016430	DSCR5_NM-016430	AAAAGCAGGCATGGTACTTTA CCTCGTGTGG	AAGAAAGCTGGGTGAGTTCAGT TTTTGGTGTAAAGTT

<i>KCNJ6</i>	NM_002240	KCNJ6_Kozak_C	AAAAGCAGGCACCATGGCCA AGCTGACAGAATCCATG	AAGAAAGCTGGGTAACTTTGG ATTCATTCTCCAGG
<i>KCNJ6</i>	NM_002240	KCNJ6_NM_002240 _	AAAAGCAGGCATGGCCAAGC TGACAGAATCCATG	AAGAAAGCTGGGTGAAGAGAAG GGTTTGCCACAG
<i>KCNJ15</i>	NM_002243	KCNJ15_Kozak_C	AAAAGCAGGCACCATGGATG CCATTCACATCGGCATG	AAGAAAGCTGGGTGACATTGC TCTGTTGTAATAAAAAGTG
<i>KCNJ15</i>	NM_002243	KCNJ15_NM_00224 3_	AAAAGCAGGCATGGATGCCA TTCACATCGGCATG	AAGAAAGCTGGGTGTGGAAC AGCTTGACAGG
<i>HMGNI</i>	J02621	HMG14_J02621	AAAAGCAGGCATGCCCAAGA GGAAGGTCAG	AAGAAAGCTGGGTGGTTATTA TCAGACTTGGCTTCT
<i>HMGNI</i>	J02621	HMGNI_C	AAAAGCAGGCACCATGCCA AGAGGAAGGTCAG	AAGAAAGCTGGGTATCAGACT TGGCTTCTTCTCTC
<i>WRB</i>	Y12478	WRB_Y12478	AAAAGCAGGCATGAGCTCAG CCGCGGCCGACCACTGGGC	AAGAAAGCTGGGTCTGTTTCA CTGAACGGATGA
<i>B3GALT5</i>	NM_006057	B3GALT5_C	AAAAGCAGGCACCATGGCTTT CCCGAAGATGAG	AAGAAAGCTGGGTGACAGGCG GACAACTTCTC
<i>B3GALT5</i>	NM_006057	B3GALT5_NM_0060 57_	AAAAGCAGGCATGGCTTTCC GAAGATGAGATTG	AAGAAAGCTGGGTACCGACATT CTGGCGTGGAT
<i>ABCG1</i>	X91249	ABCG1_X91249	AAAAGCAGGCATGGCCGCTTT CTCGGTC	AAGAAAGCTGGGTGCATCAGG TGTTTTACCTCTC
<i>TMPRSS3a</i>	NM_024022	TMPRSS3a_NM_024 022_	AAAAGCAGGCATGGGGGAAA ATGATCCGCCTG	AAGAAAGCTGGGTCTGCTCGT GTGACAGGTTCC
<i>TSGA2</i>	NM_080860	TSGA2_NM-080860	AAAAGCAGGCATGTCCGACC TGGGCTCGG	AAGAAAGCTGGGTCTCTTAGT CCTGGAGGTCTGAC
<i>SLC37A1</i>	NM_018964	SLC37A1_NM_0189 64_	AAAAGCAGGCATGGCTCGAC TCCCCGCT	AAGAAAGCTGGGTGGGTGGGG TGTCACTGTTC
<i>CBS</i>	L00972_ex	CBS_L00972	AAAAGCAGGCATGGCCAAGT GTGAGTTCTTC	AAGAAAGCTGGGTCTCCGGACT TCACTTCTGGT
<i>AGPAT3</i>	BC011971	AGPAT3_BC011971	AAAAGCAGGCATGGGCCTGC TGGCCTT	AAGAAAGCTGGGTGCCATTAAT TATTCCTTTTTCTTAAAC
<i>AGPAT3</i>	BC011971	AGPAT3_Kozak_C	AAAAGCAGGCACCATGGGCC TGCTGGCCTT	AAGAAAGCTGGGTCTTCTTTT CTTAAACTCTTGG
<i>PFKL</i>	BC009919	PFKL_BC009919	AAAAGCAGGCATGGCCGCG TGGACCT	AAGAAAGCTGGGTCTCAGAAG CCCTTGTTCCA

^aThe primer pairs used for the construct of N-terminal His₆-tagged expression clones were named after the gene symbol followed by gene accession number. The primer pairs used for the construct of C-terminal Myc-tagged expression clones were named after the gene symbol followed by “Kozak_C”. ^bThe Gateway™ entry clones of 4 genes could be ordered from RZPD, thus no PCR amplification was needed for the entry clones construction.

Table A. 2 Adapter primers used to install the complete *attB* sequences

Primers name	Primers sequence
<i>attB1_adapter</i> ^a	5' - G GGG ACA AGT TTG TAC AAA AAA GCA GGC T - 3' (forward)
<i>attB2_adapter</i> ^a	5' - GGG GAC CAC TTT GTA CAA GAA AGC TGG GT - 3' (reverse)
<i>attB1_adap_Kozak_C</i> ^b	5' - G GGG ACA AGT TTG TAC AAA AAA GCA GGC ACC ATG - 3' (forward)
<i>attB2_adap_Kozak_C</i> ^b	5' - GGG GAC CAC TTT GTA CAA GAA AGC TGG GTT - 3' (reverse)

^a The pair of *attB_adapter* primers was used for construction of N-terminal His₆-tagged expression clones. ^b The pair of *attB_adap_Kozak_C* primers was used for construction of C-terminal Myc-tagged expression clones.