

Supplementary data for selected publications

Olesen,S.H., Thykjaer,T., Orntoft,T.F. Mitotic checkpoint genes hBUB1, hBUB1B, hBUB3 and TTK in human bladder cancer, screening for mutations and loss of heterozygosity. Carcinogenesis. 22(5): 813-815. 2001. [PubMed](#)

Primers for sequence analysis

The shaded are PCR and sequence primers, the non-shaded are sequence primers.

Gene	Notation	Sequence	Distance in bp from translational starting point
hBUB1	<i>PCR-product 1</i>		
	PCR1S	gCg gTT CAg gTT TgC CgC TgC Cg	-39
	Q1AS	CgC CCA ggC AAT gTA CAg Ag	299
	Q2S	ggA gAg CTg CAg CAT gCC AgT g	337
	Q2AS	TCT AgC TTg AgC Tgg CAA ATg g	450
	Q3S	CTg TgC ACT CAT CTT Tgg CAT CC	659
	Q3AS	CAT TTA CCC ATT gCT CAT gCT TTC	788
	PCR2AS	CAT ggA gTC TgT TAC TgT CTg	1171
	<i>PCR-product 2</i>		
	PCR3S	gTg gAg ACA TCC CAT gAg gAT C	910
	Q5S	CAg ACT CCA TgT TTg CAg Tgg C	1181
	Q5AS	gAT CTA gAg ATT gCC ATT CAT C	1462
	Q6S	gAA gAT gCA TTT gAA gCC CAg TTT C	1489
	Q7S	CTg gCA CCC AgT CCT AAg AgC	1768
Q6AS	ggA ATg gTg TAg ACg CAA gTT g	1813	

PCR4AS	ggA TCT TCT gCA ATg gCA gCg	2112
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PCR-product 3

PCR5S	AgC CCA AAA CAg gCC TTg TCg	1980
Q9S	TgT AAA CTT CCA gCC ATC AAg CCC	2305
Q8AS	CTC CCT ggg TAg CTT CgT ACA C	2401
Q10S	CCA CTT ATT CCA gAA Tgg CAg Tg	2565
Q9AS	gAT TTC ACA gTC ATg CAC TTg C	2718
Q11S	ggT TTT CAg TgT gTT gAg ATg CTC AgC	2908
Q10AS	gCA gCA ACC CCA AAg TAA TCg ATC	2955
PCR6AS	CAg TgT gAT TTT TAA ggA CTg TC	3271

hBUB1b

PCR-product 1

PCR1S	TgT AgC TCC gAg ggC Agg CCT ATC CCA AAC ATC CAg	-97
Q1AS	Agg gCT ggA CAg AgC AgA ACT	219
Q2S	ATC gCA TCT gCT TTC CTA AAg	247
Q2AS	TTT TC	495
PCR2AS	TTg AgA gCA CCT CCT ACA Cg	729

PCR-product 2

PCR3S	gAg TCT TCT gTA CCA CAA Cg	651
Q4AS	gAA gCT gTA TTg CCA CgA gg	966
Q4S	gTg gAA gAg ACT gCA CAA CAg C	1029
Q5AS	CAC Tgg TCA ATA gCT Cgg CTT C	1284

Q5S	CAG CAA gAA gAg ACg ATg CCT AC	1398
Q6AS	ggA gAA Agg TAC ACT ggg ACC	1566
PCR4AS	gAT ACA AAA CgA gCT gCT CTg gC	1833

PCR-product 3a

PCR5S	TCA CAg gCT TCA gAA ATg TAA C	1777
Q8AS	gTT TCT CAg gAA TTT gAA gAC	2098
Q7S	gAA CTT ACT AAT gAg ACT TCA g	2121
Q9AS	gCC AAA CAA TAC AgC CAT CTT g	2484
Q10AS	gAA gAA CAg TTA gCC Agg ATC	2819

PCR-product 3b

Q8S	CAA gAT ggC TgT ATT gTT Tgg C	2484
Q9S	gTA gAC CTg TTT ggT ATA gCA g	2850
Q11AS	ACA gCA CAT ACA gTT TCA gTg TTC	3206
Q10S	gCT gCC TCA gAg CAA Tgg TTg	3178
PCR6AS	ATA CAT ggT gAT CAT AAg AgA AC	3464

hBUB3

PCR1S	gTA gTg gAA ACg TTg CTT CTg Agg	-34
Q2S	CTg TCC AgA AgT gAA TgT gAT g	311
Q1AS	CAA CTT CCA gTg ACC ATC AC	327
Q3S	gAA gTA TgC CTT CAA ATg TCA C	650
Q2AS	gCA TTg ACT ggg TAA ATC TgC TC	693
PCR2AS	gAA ATC TTg TCA AgT ACA Tgg Tg	973

TTK

PCR-product 1

PCR1S	Tgg AAT CCg Agg ATT TAA gTg gC	-47
Q10AS	gTA gTC ACg TgC ATC ATC Tgg	324
Q1S	gCT ATT CAA gAg CCA gAT gAT gC	312
Q9AS	CTg TAA ATg CCC AAg TgA ACC	600
Q2S	CCA CAA gAT gCA gAA ATA gg	693
Q8AS	gAA TCA gTA ATA ATA AgT TCA g	988
Q3S	gAg TAT CAA gAA CCA gAg gTT C	1068
PCR1AS	gAA AgT CAT TCT TTA CAA CTg	1357

PCR-product 2

PCR2S	CCT Tgg ATg ATT ACA TgA gCT g	1324
QextraS	gAA TgC ATT TCg gTT AAA ggA Ag	1497
Q4S	ggA CCA gTA CAT CTA CAT gg	1733
Q7AS	CCA TTA CCA TgT AgA TgT ACT g	1737
Q5S	CCA AAA gTg ATg TTT ggT CC	2089
Q6AS	CAT gAT TAg gAT CAA TTA Tgg C	2187
PCR2AS	ggA TTC AAg AgT ATA ACA gTC C	2570

**Microsatellite primers
(LOH-analysis)**

Gene	GenMap'99 notation	Sequence
hBUB1	D2-S293 S	5'6-FAM-AgC AAg TgC CTA TTT gAC ATC
	D2-S293 AS	CCA gAg TAT CgT gAg TgT gTg
hBUB1b	D15-S146 S	5'HEX-ggA AgC CTg ACT TTT ATA TCC g
	D15-S146 AS	ATg TCT gTT CAg ATC CTT TgC
hBUB3	D10-S587 S	5'6-FAM-CCC AgA TTC ATg gCT TTC
	D10-S587 AS	TTC TgC TgA CAC ggg C
TTK	D6-S284 S	5'6-FAM-CAT ggC TgT CTA TCA AAC CC
	D6-S284 AS	AAg CAT TTg TgT ggC TCT Tg