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wichtiges **VERBRAUCHSMATERIAL** und größere **GERÄTE**

Abkürzung	Bezeichnung	Hersteller und Bestellnummer
	Agarose	Invitrogen 15510-019
	nichtessentielle Aminosäuren, flüssig, 100X	Invitrogen 11140-035
BSA	<i>bovine serum albumin</i> , Rinderserumalbumin	Sigma A3311
CEL1	SURVEYOR Mutationsdetektionsset	Transgenomic 706025
	dHPLC-Anlage	Transgenomic WAVE
DAPI	4',6'-Diamidino-2-phenylindoldihydrochlorid	Sigma D 9542
DEPC	Diethylpyrocarbonat	Sigma D 5758
DMEM	Dulbeco's Modifiziertes Eagle Medium, 1X	Biochrom FG0445
DMSO	Dimethylsulfoxid	Sigma D 2650
DNase I	Desoxyribonuklease aus Schweinepankreas	Amersham Pharmacia E2215Y
dNTPs	Desoxyribonukleotide (dATP, dCTP, dGTP, dTTP)	Amersham 27-18(50, 60, 70, 80)-04
ENU	<i>N</i> -Ethyl- <i>N</i> -nitrosoharnstoff	Sigma N 8509
	Ethidiumbromid, 1% (w/v)	Merck 1.11608.0030
Φ	ΦX174/ <i>Bsu</i> RI DNA-Größenstandard	Fermentas #SM0251
FCS	<i>fetal calf serum</i> , fötales Kälberserum	Biochrom S0115
	Fluoreszenzmikroskop	Zeiss Axioplan 2
	Glaskapillaren für Mundpipette	Sigma P 1049
	L-Glutamin, 200mM, 100X	Invitrogen 25030-123
	Haltekapillaren	BioMedical Instruments GC100T-15
HCG	humanes Choriongonadotropin	Sigma C 1063
	Injektionskapillaren	BioMedical Instruments GC100T-15
	Injektionsmikroskop	Leica DMIRB
	Inkubator für die Zellkultur	Heraeus BBD 6220
	Kanülen 30G $\frac{1}{2}$	Beckton & Dickinson 305106
	Klebefilm zu Versiegelung von PCR-Platten	ABgene AB-0558
	Kresolrot	Sigma 11,448-0
λ	λ/ <i>Hind</i> III DNA-Größenstandard	Fermentas #SM0101
LIF	<i>leukemia inhibitory factor</i> , ESGRO®	Chemicon ESG1107
	M2-Medium	Sigma M 7167
	M16-Medium	Sigma M 7292
	2-Mercaptoethanol, 50mM, 500X	Invitrogen 31350-010

	2-Methyl-2-butanol	Aldrich 24,048-6
	Mikroinjektor	Eppendorf CellTram Air / Oil
	Mikrokapillaren für Mundpipette	Sigma P 1049
	Mikromanipulator mit elektrischen Joysticks	Eppendorf TransferMan
	Mineralöl	Sigma M 8410
	Mitomycin C	Roche 107409
	Multititerplatten	Biochrom (diverse)
	Primer / Oligonukleotide	Invitek oder MWG Biotech
PBS	phosphatgepufferte Kochsalzlösung, 1X	Invitrogen 14190-169
	Penicillin-Streptomycin, flüssig, 100X	Invitrogen 15140-148
<i>Pfu</i>	DNA-Polymerase von <i>Pyrococcus furiosus</i>	Roman Pawlik (MPI MolGen)
PMSG	Gonadotropin aus Blutserum schwangerer Stuten	Sigma G 4877
	PCR-Maschine	MJ Research PTC-225
	PCR-Platten, 96er Format	ABgene AB-0600
	PCR-Reinigungskit	MoBiTec NC001
	Pronase	Sigma P 8811
	Proteinase K von <i>Tritirachium album limber</i>	Roche 3115879
	5X-Puffer für M-MuLV RT	Promega M5313
M-MuLV RT	RT vom <i>Moloney murine leukaemia virus</i>	Amersham E70456Y
	RNA-Größenstandard	Invitrogen 15620-016
	RNaseZAP [®]	Ambion 9780
	Sequenzierer	Applied Biosystems Prism 3100
	Sterilbank	Heraeus HERA safe
	Sterilfilter, 0,2µm	Sarstedt 83.1826.001
	TA-Klonierungsset	Qiagen 231222
<i>Taq</i>	DNA-Polymerase von <i>Thermus aquaticus</i>	Roman Pawlik (MPI MolGen)
6-TG	6-Thioguanin	Sigma A 4882
TMP	4,5',8-Trimethylpsoralen	Fluka 92895
	2,2,2-Tribromethanol	Aldrich T4,840-2
	TRIZOL [®]	Invitrogen 15596-018
	Trypsin-EDTA, flüssig, 1X	Invitrogen 25300-096
	UVA-Messgerät	Dr. Hönle UV-Meter
	Wasser	Invitrogen 15230-089
	Wundclips	Becton & Dickinson 427631
	Zellkulturschalen	Nunc (diverse)
	Zellkulturmikroskop	Olympus CK2
	Zycloheximid	Sigma C 7698

PRIMERLISTE

Fragmentname	Fragment (bp)	forward-Primer (5'-3')	reverse-Primer (5'-3')
<i>Hprt g.</i> - 72 kb	184	CATTTCTTGAGGCTTAAAGTGG	CATGCACTTGTGGTGTGCTG
<i>Hprt g.</i> - 32 kb	417	GTGCCAGGGTAATTATGGC	CCTACCACAATGTGACGCC
<i>DXMit22</i> (-5 kb)	236	CCATGCTCACAGGCACAC	CAGGCTGGGCTACAGAAGAC
<i>Hprt g.exon 1</i>	447	GCTGTTTACTCATGAGGAGG	GTGGGGCTCTGCTGGAGT
<i>Hprt g.exon 2</i>	119	GCAGATTAGCGATGATGAACC	TTACTAACCTGCCATAATCAGTCC
<i>Hprt g.exon 3</i>	156	GGACTGAAAGACTTGCTCGAG	CAGTCATAGGAATGGATCTATCAC
<i>Hprt g.exon 4</i>	635	AGAAGCAGACACCTGTCATGC	ATATGGACTGTGAGGGTTAATGG
<i>Hprt intron 4</i>	528	GACAAAATAAACTCTCAGTGGTAGC	ACAACCTGCATCCCATTCTATAGG
<i>Hprt g.exon 5</i>	520	ATTGAGTTGGGGTTGGGG	CATGCCCTACTGTACCTGGC
<i>Hprt intron 5</i>	484	CTCCCCTCAGCATGATCTTG	ATTCTAGTGATGGATGGTCACAC
<i>Hprt g.exon 6</i>	567	GGGACTGACATTACCTCTGC	TGAAGGACCTGAACATCTAGGG
<i>Hprt intron 6</i>	619	GTGTAGAGGAGAGGTCGGGTC	TTCTCTGGGCACATCTCAC
<i>Hprt g.exon 7/8</i>	534	CTTCCTATGGGTCTGCGAAG	TCAGTCGGGTCAAATTACGAG
<i>Hprt g.exon 9</i>	364	GGTAGAAACCCAGACAACGTAG	AGCGACAATCTACCAGAGGG
<i>DXMit23</i> (+ 8 kb)	248	GAGGATCATCAGCAAGCTCC	GCACTTCCTTTCCCTAACACCC
<i>Hprt g.</i> + 25 kb	641	AAAGTCTCTCTGGCTCCGG	GGGGACTTAGTACAACCATGG
<i>Hprt g.</i> + 49 kb	332	ACCCTTTCCAAAATTCCCC	TCCGAAGAATGATACTTCCCTACC
<i>Hprt g.</i> + 86 kb	520	CCAGTGTGTTTACACTTAGCCC	CAACATCAACACCTGGTCTCC
<i>DXMit159</i> (+ 144 kb)	94	ACCTTTTCAGGAAATTACTTGGC	TTTAATTGCAGTCAATGATCCG
<i>Hprt g.</i> + 216 kb	203	CCTACCCTCCTGCATCTCTG	AGCTGCTCTGTGGATTAGCAT
<i>DXMit68</i> (+ 296 kb)	128	TCCTTTGGCCTCCTGCATAT	TGTTCTTACAATGAGCCTCATAGG
<i>Oligo-dT</i>		TTTTTTTTTTTTTTT	
<i>Hprt CDS</i>	593	CGTCGTGATTAGCGATGATG	CGTGATTCAAATCCCTGAAGTAC
<i>Hprt UTR</i>	797	CTTACCTCACTGCTTTCCGG	CTGGCAACATCAACAGGACTC
<i>Hprt dHPLC 1</i>	336	CGTCGTGATTAGCGATGATG	CCACCAATAACTTTTATGTCCC
<i>Hprt dHPLC 2</i>	297	GGGACATAAAAGTTATTGGTGG	CGTGATTCAAATCCCTGAAGTAC
<i>Hprt poison ex 3 fwd</i>	-	CAAGGGGGGCTATAAGTTCTTTG	
<i>Hprt poison ex 3 rev</i>	-		CAAAGAACTTATAGCCCCCTTG
<i>Hprt skip ex 3</i>	493-184= 309	CTGATTATGGACAGAATG	CGTGATTCAAATCCCTGAAGTAC
<i>Kit 1.H. außen</i>	1340	CTGCTCTGCGTCCTGTTGGTC	GTGGGCTCCGGGAATCCCTCTG
<i>Kit 2.H. außen</i>	1604	CGTACGACAGGGCTATAAATGGC	CACGGAATGGTCCACCACAC
<i>Kit 1.H. innen</i>	1234	CCTGCTCCGTGGCCAGACAG	GCCATTTATGAGCCTGTCTACG
<i>Kit 2.H. innen</i>	1527	CAGAGGGATTCCCGGAGCCAC	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex 2 alt</i>	1227-273= 954	CGTGGCCAGACAGATCCTGCC	GCCATTTATGAGCCTGTCTGACG
<i>Kit skip ex 2 neu</i>	1231-273= 958	GCTCCGTGGCCAGACAGATCC	GCCATTTATGAGCCTGTCTGACG
<i>Kit skip ex 3 alt</i>	955-282= 673	CGTGTTTGTAGAGCCATCAAGG	GCCATTTATGAGCCTGTCTGACG
<i>Kit skip ex 3 neu</i>	962-282= 680	CTATTTACGTGTTTGTAGAGCCATC	GCCATTTATGAGCCTGTCTGACG
<i>Kit skip ex 4</i>	679-137= 542	ACCCTCAAAGTCCGGCAGCCTC	GCCATTTATGAGCCTGTCTGACG
<i>Kit skip ex 5</i>	909-175= 734	CCTGCTCCGTGGCCAGACAG	GAGATGTTGATGAATCCTTTTTCTGAG
<i>Kit skip ex 6</i>	1099-190= 909	CCTGCTCCGTGGCCAGACAG	CAGGCGAAGTTGGTTACATATCTAC
<i>Kit skip ex 7</i>	1217-116=1101	CCTGCTCCGTGGCCAGACAG	CGTACGTCAGGATTTCTGGTTTTGCTG
<i>Kit skip ex 9</i>	1496-182=1310	GTATTTTTGTACAGGAGCAGAGCAAAGAGC	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex10</i>	372-107= 265	CAGAGGGATTCCCGGAGCCAC	TCCATTGTACTTCATACATGGGTTTCTTT
<i>Kit skip ex11</i>	1202-128=1074	GTGCTCACCTACAATATTTGCAGAAAG	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex12</i>	1074-104= 970	CAGAAACAGGCTGAGTTTTGGCAAG	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex13</i>	970-111= 859	GTTGCCGTGAAGATGCTCAAACGGC	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex14</i>	856-151= 705	GGCCCATGCAGGTGGGAGTGAC	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex15</i>	707- 89= 618	GCACTCAACGGAGCCTTCTGACTC	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex16</i>	617-128= 489	GAGGAGATCCGCAAGAATAGTG	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex17</i>	490-123= 367	GCGTTTCCGCTCCGAAGAATGCAC	GGTTGCAGTTTGCCAAGTTGG
<i>Kit skip ex18</i>	1313-112=1201	CAGAGGGATTCCCGGAGCCAC	CCCTGGGTAGGGCTGCTTCATTTCC
<i>Kit skip ex19</i>	1415-100=1315	CAGAGGGATTCCCGGAGCCAC	GCAAGTCTTCATGACGTCATACCTAAG
<i>Kit skip ex20</i>	1522-106=1416	CAGAGGGATTCCCGGAGCCAC	CAGTTTGCCAAGTTGGAGTAAATATTTCC
<i>Kit in18 außen</i>	308	GTGGATGGCACCAGAGAGCAT	AGGCTTGTGAGTCTTACATTTCCG
<i>Kit in18 innen</i>	270	CAGCTGCGGTACACATTTGAA	TTACATTTCCGGCAGCGCGC

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Arbeit bei Dr. S. Reumann / Prof. H. Heldt an der Universität Göttingen über das Proteom von Glyoxysomen in *Ricinus communis* (abgebrochene Promotion)

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VERÖFFENTLICHUNGEN aus dieser Arbeit

schriftliche Publikationen (Stand 2/2005)

Greber, B., Lehrach, H. und Himmelbauer, H. (2004). Mouse splice mutant generation from embryonic stem cells - a gene-driven approach. *Genomics*, *in press*.

Greber, B., Lehrach, H. und Himmelbauer, H. (2004). Comparison of PCR-based mutation detection methods and application for identification of mouse *Sult1a1* mutant ES cell clones using pooled templates. *Hum Mutat*, *in press*.

Greber, B., Lehrach, H. und Himmelbauer, H. (2003). Characterization of trimethylpsoralen as a mutagen for mouse embryonic stem cells. *Mutat Res* 525, 67-76

Vorträge

Dresden, 28 - 30.3.2004
5th VW Stiftung Meeting on Conditional Mutagenesis & Mouse Models

Capri, 12. - 15.10.2002
15th IIGB Meeting - From Genome Sequence to Functional analysis and Medical Applications

Posterpräsentationen

Berlin, 4. - 7.4.2004 *
Human Genome Meeting

Braunschweig, 9. - 12.11.2003
International Mouse Genome Conference

Heidelberg, 3. - 7.9.2003 *
EMBL Meeting on Mouse Molecular Genetics

Berlin, 17. - 19.11.2002 *
Symposium of the NGFN and DHGP

Shanghai, 14. - 17.4.2002
Human Genome Meeting

Leipzig, 29.9. - 2.10.2002 *
Jahrestagung der Deutschen Gesellschaft für Humangenetik

Cold Spring Harbour, 28.8. - 1.9.2002
CSH Meeting on Mouse Molecular Genetics

* mit eigener Beteiligung