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(54) **GENOTYPING HLA LOCI**

GENOTYPISIERUNG VON HLA-LOCI

GÉNOTYPAGE DE LOCI DE HLA

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(56) References cited:

US-A1- 2003 165 884 US-A1- 2004 002 073

- **DOWNING J ET AL: "Five-locus HLA typing of hematopoietic stem cell donor volunteers using PCR sequence specific primers" GENETIC TESTING, LARCHMONT, NY, US, vol. 8, no. 3, 1 October 2004 (2004-10-01), pages 301-312, XP009117560 ISSN: 1090-6576**
- **TIEMANN C ET AL: "RAPID DNA TYPING OFHLA-B27 ALLELE BY REAL-TIME PCR USINGLIGHTCYCLER TECHNOLOGY" CLINICAL LABORATORY, CLIN LAB PUBLICATIONS, HEIDELBERG, vol. 47, no. 3-4, 1 January 2001 (2001-01-01), pages 131-134, XP008072918 ISSN: 1433-6510**
- **SLATEVA K ET AL: "HLA-DRB FLUOROTYPING BASED ON SYBR GREEN MEDIATED MELTING CURVES" TISSUE ANTIGENS, MUNKSGAARD, COPENHAGEN, DK, vol. 59, no. 2, SUPPL, 18 May 2002 (2002-05-18), page 13, XP001181079 ISSN: 0001-2815**
- **FUKUSHIMA ET AL.: 'Duplex Real Time SYBR Green PCR Assays for Detection of 17 Species of Food or Waterborne Pathogens in Stools' JOURNAL OF CLINICAL MICROBIOLOGY vol. 41, pages 5314 - 5346, XP002400106**

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- **MONIS P T ET AL:** "Comparison of SYTO9 and SYBR Green I for real-time polymerase chain reaction and investigation of the effect of dye concentration on amplification and DNA melting curve analysis", *ANALYTICAL BIOCHEMISTRY*, ACADEMIC PRESS INC, NEW YORK, vol. 340, no. 1, 1 May 2005 (2005-05-01), pages 24-34, XP004816986, ISSN: 0003-2697, DOI: 10.1016/J.AB.2005.01.046
- **GIGLIO STEVEN ET AL:** "Demonstration of preferential binding of SYBR Green I to specific DNA fragments in real-time multiplex PCR.", *NUCLEIC ACIDS RESEARCH* 15 NOV 2003 LNKD-PUBMED:14602929, vol. 31, no. 22, 15 November 2003 (2003-11-15), page e136, ISSN: 1362-4962
- **ANONYMOUS,** [Online] Retrieved from the Internet: <URL:http://www.pcrstation.com/pcr-troubles_hooting/> [retrieved on 2009-11-16]
- **KWOK S ET AL:** "Effects of primer-template mismatches on the polymerase chain reaction: human immunodeficiency virus type 1 model studies", *NUCLEIC ACIDS RESEARCH*, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 18, no. 4, 25 February 1990 (1990-02-25), pages 999-1005, XP002220845, ISSN: 0305-1048
- **BON MA ET AL:** "GENOTYPING OF HLA-B27 BY REAL-TIME PCR WITHOUT HYBRIDIZATION PROBES", *CLINICAL CHEMISTRY*, AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY, WASHINGTON, DC, vol. 46, no. 7, 1 January 2000 (2000-01-01), pages 1000-1002, XP008072915, ISSN: 0009-9147
- **GAFFNEY DAIRENA ET AL:** "A PCR based method to determine the Kalow allele of the cholinesterase gene: The E-1-k allele frequency and its significance in the normal population", *JOURNAL OF MEDICAL GENETICS*, BMJ PUBLISHING GROUP, LONDON, GB, [Online] vol. 31, no. 3, 1 March 1994 (1994-03-01), pages 248-250, XP009152985, ISSN: 0022-2593 Retrieved from the Internet: URL:http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1049753/pdf/jmedgene00282_0076.pdf>
- **BUNCE M ET AL:** "Phototyping: comprehensive DNA typing for HLA-A, B, C, DRB1, DRB3, DRB4, DRB5 & DQB1 by PCR with 144 primer mixes utilizing sequence-specific primers (PCR-SSP)", *TISSUE ANTIGENS*, MUNKSGAARD, COPENHAGEN, DK, vol. 46, 1 January 1995 (1995-01-01), pages 355-367, XP008096257, ISSN: 0001-2815, DOI: 10.1111/J.1399-0039.1995.TB03127.X
- **C Tse ET AL:** "Quantification des acides nucléiques par PCR quantitative en temps réel", *Ann Biol Clin*, 1 May 2003 (2003-05-01), pages 279-293, XP55009529, Retrieved from the Internet: URL:http://www.jle.com/e-docs/00/03/FE/CF/vers_alt/VersionPDF.pdf [retrieved on 2011-10-14]
- **RIRIE K M ET AL:** "PRODUCT DIFFERENTIATION BY ANALYSIS OF DNA MELTING CURVES DURING THE POLYMERASE CHAIN REACTION", *ANALYTICAL BIOCHEMISTRY*, ACADEMIC PRESS INC, NEW YORK, vol. 245, no. 2, 1 January 1997 (1997-01-01), pages 154-160, XP001015991, ISSN: 0003-2697, DOI: 10.1006/ABIO.1996.9916

Remarks:

The file contains technical information submitted after the application was filed and not included in this specification