

Drug Metabolism and Disposition

Quantitative profiling of human renal UGTs and glucuronidation activity: a comparison of normal and tumoral kidney tissues.

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Supplemental Table 1: Signature peptides and transitions for absolute quantification of UGT proteins.

UGT	Signature peptide	MRM 1	MRM 2
UGT1A1	D ₇₀ GAFYTLK ₇₇	462.75/681.39 (y5)	462.75/524.31 (y4)
UGT1A3	Y ₁₆₄ LSIPTVFFLR ₁₇₄	681.40/1085.63 (y9)	681.40/885.52 (y7)
UGT1A4	Y ₁₆₄ LSIPAVFFWR ₁₇₄	704.89/1132.61 (y9)	704.89/932.51 (y7)
UGT1A5	Y ₁₆₄ LSIPAVFFLR ₁₇₄	666.39/1055.64 (y9)	666.39/855.53 (y7)
UGT1A6	D ₄₄ IVEVLSDR ₅₂	526.29/724.40 (y6)	526.29/595.35 (y5)
UGT1A7	W ₉₈ TAPLR ₁₀₃	377.22/567.35 (y5)	377.22/466.32 (y4)
UGT1A8	G ₅₂ HEVVVVMPEVSWQLGK ₆₈	634.68/526.29 (y9)	634.68/720.40 (b7)
UGT1A9	G ₁₇₁ ILCHYLEEGAQCPAPLSYVPR ₁₉₂	847.41/1009.56 (y9)	847.41/841.48 (y7)
UGT1A10	Y ₁₆₀ FSLPSVVFTR ₁₇₀	663.36/1015.59 (y9)	663.36/815.47 (y7)
UGT2B4	F ₁₇₄ SPGYAIEK ₁₈₂	510.27/785.42 (y7)	510.27/688.41 (y6)
UGT2B7	A ₂₅₃ DVWLIR ₂₅₉	441.76/696.43 (y5)	441.76/597.39 (y4)
UGT2B10	G ₄₉ HEVTVLASSASILFDPNDSSTLK ₇₂	832.77/1131.54 (y10)	832.77/869.48 (y8)
UGT2B15	F ₁₇₅ SVGYTFEK ₁₈₃	543.28/851.44 (y7)	543.28/752.38 (y6)
UGT2B17	F ₁₇₅ SVGYTVEK ₁₈₃	519.28/803.43 (y7)	519.28/704.40 (y6)

Supplemental Table 2: List of specific primers for qPCR

Gene	Primer	Sequence (5'-3')	Concentration / Annealing Temperature
<i>UGT1A1</i>	1A1f	GAGAGAGGTGACTGTCCAGGAC	200 nM/60°C
	1A1r	CAAATTCCTGGGATAGTGGATTTT	
<i>UGT1A3</i>	1A3f	TGAATTTGATCGCCATGTGC	200 nM/60°C
	1A3r	GTAGCTCCACACAAGACCTATGAT	
<i>UGT1A6</i>	1A6f	GTACTTCATCAACTGCCAGAGCC	600 nM/58°C
	1A6r	CAGGGAACACGGAAAACCCCTGA	400nM/58°C
<i>UGT1A7</i>	1A7f	AGTCATGCCAGAGGTGAGTTGGCA	600 nM/60°C
	1A7r	TGCACTTCGCAATGGTGCCGT	
<i>UGT1A8</i>	1A8f	CCCATTCCCCTATGTGTTTC	600 nM/60°C
	1A8r	GCCCCCTGAGGATAAGTTTC	
<i>UGTG1A9</i>	1A9f	GGAGCCACTGGTTCACCATGAG	300 nM/60°C
	1A9r	AGATCCTCCAGGGTATATGAAGTTGAA	
<i>UGT1A10</i>	1A10f	TCGTACACTCTGGAAGATCAGAA	300 nM/60°C
	1A10r	ACTTTGTGCCTGTGCTTTCC	600 nM/60°C
<i>UGT2B7</i> (<i>exon 1-2</i>)	1568f	GTGCTTTACTTTGACTTTTGGTTTCG	300 nM/60°C
	2696r	GGAGTTTCGAATAAGCCATAC	
<i>UGT2B7</i> (<i>exon 2-3</i>)	2695f	AGACAATGGGGAAAGCTGACG	150 nM/60°C
	2697r	TCTCCAGAGCTCTGTACAAAG	450 nM/60°C
<i>36B4</i>	75f	CCCATGTGAAGTCACTGTGC	125 nM/60°C
	76r	CAATGGCAGCATCTACAACC	