

**Table S3. Alignment of DzCYP72A nucleic acid sequences. Extreme similarity occurred in coding sequence of DzCYP72As belonging to Clade I (DzCYP1-13/23/24) and Clade II (DzCYP72A18-20), respectively. The first column in each paragraph contains gene or protein symbol, and the numbers in parentheses are sequence start location information. Completely consistent sequences are identified in yellow, and partially consistent sequences are identified in blue.**

		551		600
DzCYP18	(551)	AAG	ATGCTGGAGATGCAGCTGA	AAGACAGGGGTTGCCAGG-AACAAGTA
DzCYP72A17	(1)	---	ATGCTGGAGATGCAGCTGA	AAGACAGGGGTTGCCCGGGAACAAGTA
DzCYP72A22	(1)	---	ATGCTGGAGATGCAGCTGA	AAGACAGGGGTTGCCCGGGAACAAGTA
DzCYP72A20	(47)	A-G	ATGCTGGAGATGCAGCTGA	AAAGGCAGGGGTTGCCCGGGAACAAGTA
DzCYP72A21	(1)	---	ATGCTGGAGATGCAGCTGA	AAGACAGGGGTTGCCCGGGAACAAGTA
		601		650
DzCYP18	(600)		TCGGCTGATGATGGGGGACATGAAGGATGAGAAAAAGTCCTTCAAGGAGG	
DzCYP72A17	(48)		TCGGCTGATGATGGGGGACATGAAGGATGAGAAAAAGTCCTTCAAGGAGG	
DzCYP72A22	(48)		TCGGCTGATGATGGGGGACATGAAGGATGAGAAAAAGTCCTTCAAGGAGG	
DzCYP72A20	(96)		TCGGCTGATGATGGGGGACATGAAGGATGAGAAAAAGTCCTTCAAGGAGG	
DzCYP72A21	(48)		TCGGCTGATGATGGGGGACATGAAGGATGAGAAAAAGTCCTTCAAGGAGG	
		651		700
DzCYP18	(650)		CTTGGTCCAGGCCAATGGAGCTCACGCACAGGATAGCGGCTCGTGTGATT	
DzCYP72A17	(98)		CTTGGTCCAGGCCAATGGAGCTCACGCACAGGATAGCGGCTCGTGTGATT	
DzCYP72A22	(98)		CTTGGTCCAGGCCAATGGAGCTCACGCACAGGATAGCGGCTCGTGTGATT	
DzCYP72A20	(146)		CTTGGTCCAGGCCAATGGAGCTCACGCACAGGATAGCGGCTCGTGTGATT	
DzCYP72A21	(98)		CTTGGTCCAGGCCAATGGAGCTCACGCACAGGATAGCGGCTCGTGTGATT	
		701		750
DzCYP18	(700)		CCCTATGATCATCAAAT---	GGCTCAAACACATGGCAAGATATCATTCAA
DzCYP72A17	(148)		CCCTATGATCATCAAAT---	GGCTCAAACACATGGCAAGATATCATTCAA
DzCYP72A22	(148)		CCCTATGATCATCAAAT---	GGCTCAAACACATGGCAAGATATCATTCAA
DzCYP72A20	(196)		CCCTATGATCATCAAATAAT	GGCTCAAACACATGGCAAGATATCATTCAA
DzCYP72A21	(148)		CCCTATGATCATCAAAT---	GGCTCAAACACATGGCAAGATATCATTCAA
		751		800
DzCYP18	(747)		ATGGAATGGAACAACCTCCAGAGTGAACATATGGAATCCAGAGATGT	CGA
DzCYP72A17	(195)		ATGGAATGGAACAACCTCCAGAGTGAACATCTGGAATCCAGAGATGT	CGA
DzCYP72A22	(195)		ATGGAATGGAACAACCTCCAGAGTGAACATCTGGAATCCAGAGATGT	CGA
DzCYP72A20	(246)		ATGGAATGGGACAACCTCCAGAGTGAACATATGGAATCCAGAGATGT	TGA
DzCYP72A21	(195)		ATGGAATGGAACAACCTCCAGAGTGAACATCTGGAATCCAGAGATGT	CGA
		801		850
DzCYP18	(797)		GAGAGATCCTGTTAACAAGTCTGGCCACATTATCAAGCCACAAC	CTTAAC
DzCYP72A17	(245)		GAGAGATCCTGTTGAACAAGTCTGGCCACATTATCAAGCCACAAC	CTTAAC
DzCYP72A22	(245)		GAGAGATCCTGTTGAACAAGTCTGGCCACATTATCAAGCCACAAC	CTTAAC
DzCYP72A20	(296)		AAGAGATCCTGTTGAACAAGTCTGGCCACATTATCAAGCCACAAG	TGAAC
DzCYP72A21	(245)		GAGAGATCCTGTTGAACAAGTCTGGCCACATTATCAAGCCACAAC	CTTAAC
		851		900
DzCYP18	(847)		CCTCTGATAAGGCTGCTTACAATGGGAGTATCTACACTTGAAGGAGAAGA	
DzCYP72A17	(295)		CCTCTGATAAGGCTGCTTACAATGGGAGTATCTACACTTGAAGGAGAAGA	
DzCYP72A22	(295)		CCTCTGATAAGGCTGCTTACAATGGGAGTATCTACACTTGAAGGAGAAGA	
DzCYP72A20	(346)		CCTCTGATAAGGCTGCTTACAATGGGAGTATCTACACTTGAAGGAGAAGA	
DzCYP72A21	(295)		CCTCTGATAAGGCTGCTTACAATGGGAGTATCTACACTTGAAGGAGAAGA	
		901		950
DzCYP18	(897)		ATGGGCACAGAGGAGGAAGTTGATCAATCCTGCCTTTCATATGGAGAAAC	
DzCYP72A17	(345)		ATGGGCACAGAGGAGGAAGTTGATCAATCCTGCCTTTCATATGGAGAAAC	
DzCYP72A22	(345)		ATGGGCACAGAGGAGGAAGTTGATCAATCCTGCCTTTCATATGGAGAAAC	
DzCYP72A20	(396)		ATGGGCACAGAGGAGGAAGTTGATCAATCCTGCCTTTCATATGGAGAAAC	
DzCYP72A21	(345)		ATGGGCACAGAGGAGGAAGTTGATCAATCCTGCCTTTCATATGGAGAAAC	
		951		1000
DzCYP18	(947)		TCAAGGAGATGGTACCTGCTTTTCGAATCAGTTGCATTGATT	TAGTCAAG

DzCYP72A17	(395)	TCAAGGAGATGGTACCTGCTTTTCGAATCAGTTGCATTGATTTAGTCAAG
DzCYP72A22	(395)	TCAAGGAGATGGTACCTGCTTTTCGAATCAGTTGCATTGATTTAGTCAAG
DzCYP72A20	(446)	TCAAGGAGATGGTACCTGCTTTTCGAATCAGTTGCATTGATTTAGTCAAG
DzCYP72A21	(395)	TCAAGGAGATGGTACCTGCTTTTCGAATCAGTTGCATTGATTTAGTCAAG
		1001 1050
DzCYP18	(997)	AGGTGGGAGAACTT---AGTGAGTGCCGAAGGATCCTGTGAACTAGATGT
DzCYP72A17	(445)	AGGTGGGAGAACTT---AGTGAGTGCCGAAGGATCCTGTGAACTAGATGT
DzCYP72A22	(445)	AGGTGGGAGAACTT---AGTGAGTGCCGAAGGATCCTGTGAACTAGATGT
DzCYP72A20	(496)	AGGTGGGAGAACTT---AGTGAGTGCCGAAGGATCCTGTGAACTAGATGT
DzCYP72A21	(445)	AGGTGGGAGAACTTGGTAGTGAGTGCCGAAGGATCCTGTGAACTAGATGT
		1051 1100
DzCYP18	(1044)	CTGGCCTGAATTTTCAGAGTCTAACAGGAGATGTGATCTCTCGCACTGCAT
DzCYP72A17	(492)	CTGGCCTGAATTTTCAGAGTCTAACAGGAGATGTGATCTCTCGCACTGCAT
DzCYP72A22	(492)	CTGGCCTGAATTTTCAGAGTCTAACAGGAGATGTGATCTCTCGCACTGCAT
DzCYP72A20	(543)	CTGGCCTGAATTTTCAGAGTCTAACAGGAGATGTGATCTCTCGCACTGCAT
DzCYP72A21	(495)	CTGGCCTGAATTTTCAGAGTCTAACAGGAGATGTGATCTCTCGCACTGCAT
		1101 1150
DzCYP18	(1094)	TTGGTAGTAGTTTTGAGGAAGGAAAGCAGATTTTTGAGTCCAAAAGGAA
DzCYP72A17	(542)	TTGGTAGTAGTTTTGAGGAAGGAAAGCAGATTTTTGAACTCCAAAAGGAA
DzCYP72A22	(542)	TTGGTAGTAGTTTTGAGGAAGGAAAGCAGATTTTTGAACTCCAAAAGGAA
DzCYP72A20	(593)	TTGGTAGTAGTTTTGAGGAAGGAAAGCAGATTTTTGAACTCCAAAAGGAA
DzCYP72A21	(545)	TTGGTAGTAGTTTTGAGGAAGGAAAGCAGATTTTTGAACTCCAAAAGGAA
		1151 1200
DzCYP18	(1144)	CAAGCTGTTCTTGTCATTGAAGCTGCCCCTCGATCTATCTTCCAGGCTT
DzCYP72A17	(592)	CAAGCTGTTCTTGTCATTGAAGCTTCCCCTCGATCTATCTTCCAGGCTT
DzCYP72A22	(592)	CAAGCTGTTCTTGTCATTGAAGCTTCCCCTCGATCTATCTTCCAGGCTT
DzCYP72A20	(643)	CAAGCTGTTCTTGTCATTGAAGCTGCCCCTCGATCTATCTTCCAGGCTT
DzCYP72A21	(595)	CAAGCTGTTCTTGTCATTGAAGCTGCCCCTCGATCTATCTTCCAGGCTT
		1201 1250
DzCYP18	(1194)	TAGGTTTCCTGCCAACTGCAAAGAATAAGAGGAGAATGTTTCATCGACAGTG
DzCYP72A17	(642)	TAGGTTTCCTGCCAACTGCAAAGAATAAGAGGAGAATGTTTCATCGACAGTG
DzCYP72A22	(642)	TAGATTCCTGCCAACTGCAAAGAATAAGAGGAGAATGTTTCATCGACAGTG
DzCYP72A20	(693)	TAGGTTTCCTGCCAACTGCAAAGAATAAGAGGAGAATGTTTCATCGACAGTG
DzCYP72A21	(645)	TAGGTTTCCTGCCAACTGCAAAGAATAAGAGGAGAATGTTTCATCGACAGTG
		1251 1300
DzCYP18	(1244)	AGATCAAGAGAATGCTACGAGATATCATCCACAAGAAGATAGATTCAATG
DzCYP72A17	(692)	AGATCAAGAGAATGCTACGAGATATCATCCACAAGAAGTATAGATTCAATG
DzCYP72A22	(692)	AGATCAAGAGAATGCTACGAGATATCATCCACAAGAAGTATAGATTCAATG
DzCYP72A20	(743)	AGATCAAGAGAATGCTACGAGATATCATCCACAAGAAGATAGATTCAATG
DzCYP72A21	(695)	AGATCAAGAGAATGCTACGAGATATCATCCACAAGAAGATAGATTCAATG
		1301 1350
DzCYP18	(1294)	AAAATCGGAGAAAACTGATGATGACTTACTCAGCTTGTTTATTTGCAA
DzCYP72A17	(742)	AAAATCGGAGAAAACTGATGATGACTTACTCAGCTTGTT---GTTGCAA
DzCYP72A22	(742)	AAAATCGGAGAAAACTGATGATGACTTACTCAGCTTGTT---GTTGCAA
DzCYP72A20	(793)	AAAATCGGAGAAAACTGATGATGACTTACTCAGCTTGTT---GTTGCAA
DzCYP72A21	(745)	AAAATCGGAGAAAACTGATGATGACTTACTCAGCTTGTT---GTTGCAA
		1351 1400
DzCYP18	(1344)	TCCGATACATATGA-----
DzCYP72A17	(790)	TCCGATACGATGAATGTTGTCGCTGAAGATAAAAAACAAGAAAGAACAAATGG
DzCYP72A22	(790)	TCCAAATACGATGAATGTTGCCGCTGAAGATAAAAAACAAGAAAGAACAAATGG
DzCYP72A20	(841)	TCCGATACGATGAATGTTGCCACTGAAGATAAAAAACAAGAAAGAACAAATGG
DzCYP72A21	(793)	TCCGATACATGAATGTTGCCACTGAAGATAAAAAACAAGAAAGAACAAATGG
		1401 1450
DzCYP18	(1357)	-----
DzCYP72A17	(840)	GATCACGATTGATGATGTAATAGAGGAATGCAAGTTGTTCTACTTCGCTG
DzCYP72A22	(840)	GATCACGATTGATGATGTAATAGAGGAATGCAAGTTGTTCTACTTCGCTG
DzCYP72A20	(891)	GATCACGATTGATGATGTAATAGAGGAATGCAAGTTGTTCTACTTCGCTG

DzCYP72A21	(843)	GATCACGATTGATGATGTAATAGAGGAATGCAAGTTGTTCTACTTTGCTG
	1451	1500
DzCYP18	(1357)	-----
DzCYP72A17	(890)	GCCAAGAGGGCACCTCAATTTTGCTTACCTGGACATTGATTCTCTTATCC
DzCYP72A22	(890)	GCCAAGAGGGCACCTCAATTTTGCTTACCTGGACATTGATTCTCTTATCC
DzCYP72A20	(941)	GCCAAGAGACCACCTCAATTTTGCTTACCTGGACATTGATTCTCTTATCC
DzCYP72A21	(893)	GCCAAGAGACCACCTCAATTTTGCTTACCTGGACATTGATTCTCTTATCC
	1501	1550
DzCYP18	(1357)	-----
DzCYP72A17	(940)	ATGTACCCTAGTTGGCAGAAGAAAGCAAGGGAGGAAGTTCTCAATAACTG
DzCYP72A22	(940)	ATGTACCCTAGTTGGCAGAAGAAAGCAAGGGAGGAAGTTCTCAATAACTG
DzCYP72A20	(991)	ATGTACCCTACTTGGCAGAAGAAAGCTAGGGAGGAAGTTCTCAATACCTG
DzCYP72A21	(943)	ATGTACCCTACTTGGCAGAAGAAAGCTAGGGAGGAAGTTCTCAATACCTT
	1551	1600
DzCYP18	(1357)	-----
DzCYP72A17	(990)	CGGGAAGAACACACCTGAGTTCGAGAACATCAGCCACCTCAAGATTGTAA
DzCYP72A22	(990)	CAGGAAGAACACACCTGAGTTCGAGAACATCAGCCACCTCAAAATTGTAA
DzCYP72A20	(1041)	TGGGAAAACACACCTGAGTTCGAGAACATCAGCCACCTCAAGATTGTAA
DzCYP72A21	(993)	TGGGAAGAACACACCTGAGTTCGAGAACATCAGCCACCTCAAGATTGTAA
	1601	1650
DzCYP18	(1357)	-----
DzCYP72A17	(1040)	ACATGATATTACATGAAGTATTGAGGTTGTATCCACCTGGGTCACACTG
DzCYP72A22	(1040)	ACATGATATTACATGAAGTATTGAGGTTGTATCCACCTGGGTCACACTG
DzCYP72A20	(1091)	ACATGATATTACATGAAGTATTGAGGTTGTATCCACCTGTGATCACACTG
DzCYP72A21	(1043)	ACATGATATTACATGAAGTATTGAGGTTGTATCCACCTGTGATCACACTG
	1651	1700
DzCYP18	(1357)	-----
DzCYP72A17	(1090)	ATTTCGTTACATAAACAAGAAAGTCAAAGTGGGAATATAACATTACCTGC
DzCYP72A22	(1090)	ATTTCGTTACATAAACAAGAAAGTCAAAGTGGGAATATAACATTACCTGC
DzCYP72A20	(1141)	TTTCGTCACATAAACAAGAAAGTCAAAGTGGGAGATATAACATTACCTGC
DzCYP72A21	(1093)	TTCGTCACATAAACAAGAAAGTCAAAGTGGGAGATATAACATTACCTGC
	1701	1750
DzCYP18	(1357)	-----
DzCYP72A17	(1140)	TGGAGCTGAAGTCTTGATACCTATTCTACAAGTACACCATGATCCAGAAA
DzCYP72A22	(1140)	TGGAGCTGAAGTCTTGATACCTATTCTACAAGTACACCATGATCCAGAAA
DzCYP72A20	(1191)	TGGAGCTGAAGTCTTGATACCTATTCTACAAGTACACCATGATCCAGAAA
DzCYP72A21	(1143)	TGGAGCTGAAGTCTTGATACCTATTCTACAAGTACACCATGATCCAGAAA
	1751	1800
DzCYP18	(1357)	-----
DzCYP72A17	(1190)	TTTGGGGAGAGATGCTGAAGAGTTCAAACCAGAGAGATTTTCAGAAGGG
DzCYP72A22	(1190)	TTTGGGGAGAGATGCTGAAGAGTTCAAACCAGAGAGATTTTCAGAAGGG
DzCYP72A20	(1241)	TTTGGGGGAGGATGCTGAAGAGTTCAAACCAGAGAGATTTTCAGAAGGG
DzCYP72A21	(1193)	TTTGGGGGGAGGATGCTGAAGAGTTCAAACCAGAGAGATTTTCAGAAGGG
	1801	1850
DzCYP18	(1357)	-----
DzCYP72A17	(1240)	GTTTCAAATGCATCAAAGGGTCAGCAAGCATTCTTTCCTTTTGGTTGGGG
DzCYP72A22	(1240)	GTTTCAAATGCATCAAAGGGTCAGCAAGCATTCTTTCCTTTTGGTTGGGG
DzCYP72A20	(1291)	GTTTCAAATGCATCAAAGGGTCAGCAATGCATTCTTTCCTTTTGGTTGGGG
DzCYP72A21	(1243)	GTTTCAAATGCATCAAAGGGTCAGCAATGCATTCTTTCCTTTTGGTTGGGG
	1851	1900
DzCYP18	(1357)	-----
DzCYP72A17	(1290)	CCCCAGAATATGTAGTGGGCAAACTTTCGCTATGATAGAAGCAAAGCTAG
DzCYP72A22	(1290)	CCCCAGAATATGTAGTGGGCAAACTTTCGCTATGATAGAAGCAAAGCTAG
DzCYP72A20	(1341)	CCCAAGAATATGTATGGGCAAACTTTCGCTATGATAGAAGCAAAGCTAG
DzCYP72A21	(1293)	CCCAAGAATATGTATGGGCAAACTTTCGCTATGATAGAAGCAAAGCTAG
	1901	1950
DzCYP18	(1357)	-----

DzCYP72A17	(1340)	CTCTGGCAATGGTGCTTCAA	AATTTCCTCTTGA	ACTCTCA	ACCTTCCTAT
DzCYP72A22	(1340)	CTCTGGCAATGGTGCTTCAA	AATTTCCTCTTGA	ACTCTCA	ACCTTCCTAT
DzCYP72A20	(1391)	CTCTGGCAATGGTGCTTCAA	CATTTCCTCTTGA	CTCTCT	TCCTTCCTAT
DzCYP72A21	(1343)	CTCTGGCAATGGTGCTTCAA	CATTTCCTCTTGA	CTCTCT	TCCTTCCTAT

		1951		2000	
DzCYP18	(1357)	-----			
DzCYP72A17	(1390)	ACTCATGCTCCTTACA	ATGTG	GATAACCCTTCAGCCACAATATGGAGCTCA	
DzCYP72A22	(1390)	ACTCATGCTCCTTACA	ATGTG	GATGACCCTTCAGCCACAATATGGAGCTCA	
DzCYP72A20	(1441)	ACTCATGCTCCTTACA	CTGTA	ATAACCCTTCAGCCACAATATGGAGCTCA	
DzCYP72A21	(1393)	ACTCATGCTCCTTACA	CTGTA	ATAACCCTTCAGCCACAATATGGAGCTCA	

		2001		2022	
DzCYP18	(1357)	-----			
DzCYP72A17	(1440)	TCTCATCCTACATCAACTCTGA			
DzCYP72A22	(1440)	TCTAATCCTACATCAACTCTGA			
DzCYP72A20	(1491)	TCTCATCCTACATCAACTCTGA			
DzCYP72A21	(1443)	TCTCATCCTACATCAACTCTGA			

		151		200	
DzCYP72A17	(1)	-----			
DzCYP72A22	(1)	-----			
DzCYP72A20	(1)	-----			
DzCYP72A18	(151)	ASKGQNAFFPFGWGPRILIGVLGRVSYLVWVKPKDAGDAAE	K	T	G
DzCYP72A19	(1)	-----			
DzCYP72A21	(1)	-----			

		201		250	
DzCYP72A17	(17)	RLMMGDMKDEKKSFK	EAWSRPMELTHRIAARVIPYDHQ	MAQTHGKISFK	
DzCYP72A22	(17)	RLMMGDMKDEKKSFK	EAWSRPMELTHRIAARVIPYDHQ	MAQTHGKISFK	
DzCYP72A20	(33)	RLMMGDMKDEKKSFK	EAWSRPMELTHRIAARVIPYDHQ	MAQTHGKISFK	
DzCYP72A18	(201)	RLMMGDMKDEKKSFK	EAWSRPMELTHRIAARVIPYDHQ	MAQTHGKISFK	
DzCYP72A19	(1)	-----			
DzCYP72A21	(17)	RLMMGDMKDEKKSFK	EAWSRPMELTHRIAARVIPYDHQ	MAQTHGKISFK	

		251		300	
DzCYP72A17	(66)	WNGTTPRVNIWNPEMSREILLNKS	GHI IKPQLNPLIRLLTMGVSTLEGE		
DzCYP72A22	(66)	WNGTTPRVNIWNPEMSREILLNKS	GHI IKPQLNPLIRLLTMGVSTLEGE		
DzCYP72A20	(83)	WNGTTPRVNIWNPEMSREILLNKS	GHI IKPQLNPLIRLLTMGVSTLEGE		
DzCYP72A18	(250)	WNGTTPRVNIWNPEMSREILLNKS	GHI IKPQLNPLIRLLTMGVSTLEGE		
DzCYP72A19	(1)	-----			
DzCYP72A21	(66)	WNGTTPRVNIWNPEMSREILLNKS	GHI IKPQLNPLIRLLTMGVSTLEGE		

		301		350	
DzCYP72A17	(116)	WAQRRKLINPAFHMEKLKEMVPVFRIS	CIDLVKRWENLVS	AEGSCELDV	
DzCYP72A22	(116)	WAQRRKLINPAFHMEKLKEMVPVFRIS	CIDLVKRWENLVS	AEGSCELDV	
DzCYP72A20	(133)	WAQRRKLINPAFHMEKLKEMVPVFRIS	CIDLVKRWENLVS	AEGSCELDV	
DzCYP72A18	(300)	WAQRRKLINPAFHMEKLKEMVPVFRIS	CIDLVKRWENLVS	AEGSCELDV	
DzCYP72A19	(1)	-----			
DzCYP72A21	(116)	WAQRRKLINPAFHMEKLKEMVPVFRIS	CIDLVKRWENLVS	AEGSCELDV	

		351		400	
DzCYP72A17	(165)	WPEFQSLTGDVISRTAFGSSFEEGKQIFELQKEQAVLVIEAS	RSIYLPGF		
DzCYP72A22	(165)	WPEFQSLTGDVISRTAFGSSFEEGKQIFELQKEQAVLVIEAS	RSIYLPGF		
DzCYP72A20	(182)	WPEFQSLTGDVISRTAFGSSFEEGKQIFELQKEQAVLVIEAARS	SIYLPGF		
DzCYP72A18	(349)	WPEFQSLTGDVISRTAFGSSFEEGKQIFELQKEQAVLVIEAARS	SIYLPGF		
DzCYP72A19	(1)	-----			
DzCYP72A21	(166)	WPEFQSLTGDVISRTAFGSSFEEGKQIFELQKEQAVLVIEAARS	SIYLPGF		

		401		450	
DzCYP72A17	(215)	RFLPTAKNKRMFIDSEIKRMLRDI	IHKKIDSMKIGEN	ADDDLLSLLLQS	
DzCYP72A22	(215)	RFLPTAKNKRMFIDSEIKRMLRDI	IHKKIDSMKIGEN	ADDDLLSLLLQS	
DzCYP72A20	(232)	RFLPTAKNKRMFIDSEIKRMLRDI	IHKKIDSMKIGENTDD	DDLLSLLLQS	

DzCYP72A18 (399) RFLPTAKNRRMFIDSEIKRMLRDI IHKKIDSMKIGENTDDDLLSLFTICN  
DzCYP72A19 (1) -----  
DzCYP72A21 (216) RFLPTAKNRRMFIDSEIKRMLRDI IHKKIDSMKIGENTDDDLLSLLQS  
451 500  
DzCYP72A17 (265) DTMNVVAEDKNKKNNGITIDDVIEECKLFYFAGQEGTSILLTWTLLLSM  
DzCYP72A22 (265) NTMNVAAEDKNKKNNGITIDDVIEECKLFYFAGQEGTSILLTWTLLLSM  
DzCYP72A20 (282) DTMNVATEDKNKKNNGITIDDVIEECKLFYFAGQEGTSILLTWTLLLSM  
DzCYP72A18 (449) PIL-----  
DzCYP72A19 (1) -----M  
DzCYP72A21 (266) DTMNVATEDKNKKNNGITIDDVIEECKLFYFAGQEGTSILLTWTLLLSM  
501 550  
DzCYP72A17 (315) YPSWQKKAREEVLNNCGKNTPEFENISHLKIVNMILHEVLRLYPPGVTLI  
DzCYP72A22 (315) YPSWQKKAREEVLNNCRKNTPEFENISHLKIVNMILHEVLRLYPPGVTLI  
DzCYP72A20 (332) YPTWQKKAREEVLNTCGKNTPEFENISHLKIVNMILHEVLRLYPPVITLF  
DzCYP72A18 (452) -----  
DzCYP72A19 (2) YPTWQKKAREEVLNTCGKNTPEFENVSHLKIVNMILHEVLRLYPPVITLF  
DzCYP72A21 (316) YPTWQKKAREEVLNTFGKNTPEFENISHLKIVNMILHEVLRLYPPVITLF  
551 600  
DzCYP72A17 (365) RYINKKVKVGNITLPAGAEVLIPILQVHHDPEIWGEDAEEFKPERFSEGV  
DzCYP72A22 (365) RYINKKVKVGNITLPAGAEVLIPILQVHHDPEIWGEDAEEFKPERFSEGV  
DzCYP72A20 (382) RHINKNVKLGDITLPAGAEVLIPILQVHHDPEIWGRMLKSSKPERFSEGV  
DzCYP72A18 (452) -----  
DzCYP72A19 (52) RHINKNVKLGDITLPAGAEVVIPIILQVHHDPEIWGEDAEEFKPERFSEGV  
DzCYP72A21 (366) RHINKNVKLGDITLPAGAEVLIPILQVHHDPEIWGEDAEEFKPERFSEGV  
601 650  
DzCYP72A17 (415) SNASKGQQAFFPFGWGPRICSGQTFAMIEAKLALAMVLQNFSEFELSPSYT  
DzCYP72A22 (415) SNASKGQQAFFPFGWGPRICSGQTFAMIEAKLALAMVLQNFSEFELSPSYT  
DzCYP72A20 (432) SNASKGQNAFFPFGWGPRICIGQTFAMIEAKLALAMVLQHFSFDLSPSYT  
DzCYP72A18 (452) -----  
DzCYP72A19 (102) SNASKGQNAFFPFGWGPRICIGQTFAMIEAKLALAMVLQHFSFDLSPSYT  
DzCYP72A21 (416) SNASKGQNAFFPFGWGPRICIGQTFAMIEAKLALAMVLQHFSFDLSPSYT  
651 672  
DzCYP72A17 (465) HAPYNVITLQPQYGAHLILHQL  
DzCYP72A22 (465) HAPYNVMTLQPQYGAHLILHQL  
DzCYP72A20 (482) HAPYTVITLQPQYGAHLILHQL  
DzCYP72A18 (452) -----  
DzCYP72A19 (152) HAPYTVITLQPQYGAHLILHQL  
DzCYP72A21 (466) HAPYTVITLQPQYGAHLILHQL

1 50  
DzCYP72A1 (1) ATGGAGTCAGTGATGGGAGTGGTATGGGCGGCGGCGGCGGTGGCGGTG--  
DzCYP72A8 (1) ATGGAGTCAGTGATGGGAGTGGTATGGGCGGCGGCGGCGGTGGCGGTG--  
DzCYP72A2 (1) ATGGAGTCAGTGATGGGAGTGGTATGGGCGGCGGCGGCGGTGGCGGTG--  
DzCYP72A9 (1) ATGGAGTCAGTGATGGGAGTGGTATGGGCGGCGGCGGCGGTGGCGGTG--  
DzCYP72A5 (1) ATGGAGTCAGTGATGGGAGTGGTATGGGCGGCGGCGGCGGTGGCGGTG--  
DzCYP72A10 (1) ATGGAGTTAGTGATGAGAGTGGTATGGGCGGTGGCGGCGGTGGCGGTG--  
DzCYP72A3 (1) ATGGAGTTAGTGATGGGAGTGGTATGGGCGG-----CGGTGGCGGTG--  
DzCYP72A6 (1) ATGGAGTTAGTGATGGGAGTGGTATGGGCGG-----CGGTGGCGGTG--  
DzCYP72A11 (1) ATGGAGTTAGTGATGGGAGTGGTATGGGCGGCGGCGGTGGTGATGCTG--  
DzCYP72A4 (1) ATGGAGTTAGTGATGGGAGTGGTATGGGCGGCGGCGGTGGTGATGCTG--  
DzCYP72A7 (1) -----  
DzCYP72A12 (1) ATGGAGTCACTGATGGGAGTGAATATGGGCGGTGGCGGCGGTGGTG--

DzCYP72A13 (1) ATGGAGT TAGTGATGGGAGTGAATATGGACGGTGA CGGCGGCGGTGGTG--  
51 100

DzCYP72A1 (49) ----GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGAAAGCCGA  
DzCYP72A8 (49) ----GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGAAAGCCGA  
DzCYP72A2 (51) GGTG GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGACGCCGA  
DzCYP72A9 (51) GGTG GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGACGCCGA  
DzCYP72A5 (49) ----GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGACGCCGA  
DzCYP72A10 (49) ----GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGACGCCGA  
DzCYP72A3 (43) ----GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGACGCCGA  
DzCYP72A6 (43) ----GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGACGCCGA  
DzCYP72A11 (49) ----GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGCGGACGCCGA  
DzCYP72A4 (49) ----GTGGCGTGGGCGTGGAGGACGTTGGATTGGGTTTGGCGGACGCCGA  
DzCYP72A7 (1) -----A  
DzCYP72A12 (49) ----GTGGCGGCCGCGTGGAGGACGTTGGATTGGATTGGTGGACGCCGA  
DzCYP72A13 (49) ----GTGGTGTGGGCGTGGAGGACGTTGGATTGGGTTTGGTGGACGCCGA  
101 150

DzCYP72A1 (95) GGAGGCTGGATCGGGA ACTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A8 (95) GGAGGCTGGATCGGGA ACTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A2 (101) GGAGGCTGGATCGGGA ACTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A9 (101) GGAGGCTGGATCGGGA ACTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A5 (95) GGAGGCTGGATCGGGA ACTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A10 (95) GGAGGCTGGATCGGGA ACTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A3 (89) GGAGGCTGGATCGGGA ACTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A6 (89) GGAGGCTGGACCGGGAGCTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A11 (95) TGAGGCTGGACCGGGAGCTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A4 (95) TGAGGCTGGACCGGGAGCTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A7 (2) TGAGGCTGGACCGGGAGCTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A12 (95) GGAGGCTGGACCGGGAGCTCCGACGCAGGGCCTGCGCGGCAACCAGTAC  
DzCYP72A13 (95) GGAGGCTGGACCGGGATCTCCGGCGGCAGGGCCTGCGCGGCAACCAGTAC  
151 200

DzCYP72A1 (145) CGACTCTTGCA CGGCGATCTCAAGGAAAACGCCGGCTCTCCGAGAGGC  
DzCYP72A8 (145) CGACTCTTGCA CGGCGATCTCAAGGAAAACGCCGGCTCTCCGAGAGGC  
DzCYP72A2 (151) CGAGTCTTGCA CGGCGATCTCAAGGAAAACGCCGGCTATCCGAGAGGC  
DzCYP72A9 (151) CGAGTCTTGCA CGGCGATCTCAAGGAAAACGCCGGCTATCCGAGAGGC  
DzCYP72A5 (145) CGAGTCTTGCA CGGCGATCTCAAGGAAAACACCCGGCTATCCGAGAGGC  
DzCYP72A10 (145) CGACTCTTGCA CGGCGATCTCAAGGAAAACGCCAGCTCTCCGAGAGGC  
DzCYP72A3 (139) CGACTCTTGCA CGGCGATCTCAAGGAAAACGCCAGCTCTCCGAGAGGC  
DzCYP72A6 (139) CGAGTATTGCA CGGCGATCTCAAGGAAAACGCCAGCTCTCCGAGAGGC  
DzCYP72A11 (145) CGAGTCTTCCATGGCGATCTCAAGGAAAACGCCGGCTCTCGAAGGAGGC  
DzCYP72A4 (145) CGAGTCTTCCATGGCGATCTCAAGGAAAACGCCGGCTCTCGAAGGAGGC  
DzCYP72A7 (52) CGAGTCTTCCATGGCGATCTCAAGGAAAACGCCGGCTCTCGAAGGAGGC  
DzCYP72A12 (145) CGAGTCTTGCA CGGCGATCTCAAGGAAAACGTCGGGCTCTCGAAGGAGGC  
DzCYP72A13 (145) CGATTATTGCA CGGCGATCTCAAGGAAAACGCCGGCTCTCCAGGAGGC  
201 250

DzCYP72A1 (195) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A8 (195) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A2 (201) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A9 (201) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A5 (195) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A10 (195) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A3 (189) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A6 (189) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A11 (195) TGAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A4 (195) TGAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A7 (102) TGAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A12 (195) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGCCCCCGCGTTT  
DzCYP72A13 (195) TAAATCCCGGCCTCTGCCTCTTCACTGCCATGACATCGTCCCAGGTTT

		251		300
DzCYP72A1	(245)	TCCCTGTC	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A8	(245)	TCCCTGTC	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A2	(251)	TCCCTGTC	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A9	(251)	TCCCTGTC	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A5	(245)	TCCCTGTC	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A10	(245)	TCCCTCTCT	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A3	(239)	TCCCTCTCT	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A6	(239)	TCCCTCTCT	TCCACAACGCCATCAAAGATCACG-----	
DzCYP72A11	(245)	TCCCTCTCT	TCCACAACGCCATCAAAGATCATGGTAAAATCTCAATAACT	
DzCYP72A4	(245)	TCCCTCTCT	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A7	(152)	TCCCTCTCT	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A12	(245)	TCCCTCTCT	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
DzCYP72A13	(245)	CCCTCTCA	TCCACAACGCCATCAAAGATCACGGTAAAATCTCAATAACT	
		301		350
DzCYP72A1	(295)	TGGTTTGGG	CCTTACCCAAGAGTGACCTTAATGGAGCCAGAGCTAGTCAA	
DzCYP72A8	(295)	TGGTTTGGG	CCTTACCCAAGAGTGACCTTAATGGAGCCAGAGCTAGTCAA	
DzCYP72A2	(301)	TGGTTTGGG	CCTTACCCAAGAGTGACCTTAATGGAGCCAGAGCTAGTGAA	
DzCYP72A9	(301)	TGGTTTGGG	CCTTACCCAAGAGTGACCTTAATGGAGCCAGAGCTAGTGAA	
DzCYP72A5	(295)	TGGTTTGGG	CCTTACCCAAGAGTGACCTTAATGGAGCCAGAGCTAGTGAA	
DzCYP72A10	(295)	TGGCTTGGT	CCTTACCCAAGAGTGATCTTAACAGAGCCAGAGCTAGTGAA	
DzCYP72A3	(289)	TGGCTTGGT	CCTTACCCAAGAGTGATCTTAGCAGAGCCAGAGCTAGTGAA	
DzCYP72A6	(272)	-----	AGCCAGAGCTAGTGAA	
DzCYP72A11	(295)	TGGCTTGGC	CCTTATCCAAGAGTGACCTTAACGGAAACCAGAACTAGTTAT	
DzCYP72A4	(295)	TGGCTTGGC	CCTTGTCCAAGAGTGACCTTAACGGAAACCAGAACTAGTAAA	
DzCYP72A7	(202)	TGGCTTGGC	CCTTGTCCAAGAGTGACCTTAACGGAAACCAGAACTAGTAAA	
DzCYP72A12	(295)	TGGCTTGGC	CCTTATCCAAGAGTGACCTTAACAGAGCCAGAGCTAGTGAA	
DzCYP72A13	(295)	TGGCTTGGAC	CCTTATCCAAGAGTGCTCTTGATGGAAACCAGATTAGTGAA	
		351		400
DzCYP72A1	(345)	AGAAGTGT	TGCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGCAACTC	
DzCYP72A8	(345)	AGAAGTGT	TGCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGCAACTC	
DzCYP72A2	(351)	AGAAGTGT	TGCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGCAAAATC	
DzCYP72A9	(351)	AGAAGTGT	TGCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGCAAAATC	
DzCYP72A5	(345)	AGAAGTGT	TGCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGCAAAATC	
DzCYP72A10	(345)	AGAAGTACT	CTCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGTACAACCTC	
DzCYP72A3	(339)	AGAAGTACT	CTCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGTACAACCTC	
DzCYP72A6	(288)	AGAAGTACT	CTCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGTACAACCTC	
DzCYP72A11	(345)	AGAAGTGTT	---AAACAAGTTTGGACATTTTGTAAAAATAAGAGTACAACCTC	
DzCYP72A4	(345)	AGAAGTGTT	---AAACAAGTTTGGACATTTTGTAAAAATAAGAGTACAACCTC	
DzCYP72A7	(252)	AGAAGTGTT	---AAACAAGTTTGGACATTTTGTAAAAATAAGAGTACAACCTC	
DzCYP72A12	(345)	AGAAGTGCT	GTCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGTACAACCTC	
DzCYP72A13	(345)	AGAAGTACT	GTCAAAACAAGTTTGGACATTTTGTAAAAATAAGAGTACAACCTC	
		401		450
DzCYP72A1	(395)	CCCTTGCCAA	TTTFTTGGTCCAAGGACTTGTGACTTATGAAGGTGAAAAG	
DzCYP72A8	(395)	CCCTTGCCAA	TTTFTTGGTCCAAGGACTTGTGACTTATGAAGGTGAAAAG	
DzCYP72A2	(401)	CCCTTACCAA	TTTATTTGGTCCAAGGACTTGTAGTTTATGAAGGTGAAAAG	
DzCYP72A9	(401)	CCCTTACCAA	TTTATTTGGTCCAAGGACTTGTAGTTTATGAAGGTGAAAAG	
DzCYP72A5	(395)	CCCTTACCAA	TTTATTTGGTCCAAGGACTTGTAGTTTATGAAGGTGAAAAG	
DzCYP72A10	(395)	CCCTTGCCAA	TTTFTTGGTCCAAGGGCTTGCGTCTTATGACGGTGAAAAG	
DzCYP72A3	(389)	CCCTTGCCAA	TTTFTTGGTCCAAGGGCTTGCGTCTTATGACGGTGAAAAG	
DzCYP72A6	(338)	CCCTTGCCAA	TTTFTTGGTCCAAGGGCTTGCGTCTTATGACGGTGAAAAG	
DzCYP72A11	(392)	CTTTTGCCAA	TTTFTTGGTCCAAGGGCTTGTGCTTATGAAGGTGAAAAG	
DzCYP72A4	(392)	CTTTTGCCAA	TTTFTTGGTCCAAGGGCTTGTGCTTATGAAGGTGAAAAG	
DzCYP72A7	(299)	CTTTTGCCAA	TTTFTTGGTCCAAGGGCTTGTGCTTATGAAGGTGAAAAG	
DzCYP72A12	(395)	CTTTAGCCAA	TTTFTTGGTCCAAGGGCTTGTGCTTATGAAGGTGAAAAG	
DzCYP72A13	(395)	CTATTGCCAA	TTTFTTGGTCCAAGGACTTGTAGCTTATGAAGGTGAAAAG	
		451		500

DzCYP72A1	(445)	TGGGCCAAACATAGAAAGGATCATCAACCCTGCATTCCATCTTGAGAAACT
DzCYP72A8	(445)	TGGGCCAAACATAGAAAGGATCATCAACCCTGCATTCCATCTTGAGAAACT
DzCYP72A2	(451)	TGGGCCAAACACAGAAGGATCATCAACCCTGCATTCCATCTTGAGAAACT
DzCYP72A9	(451)	TGGGCCAAACACAGAAGGATCATCAACCCTGCATTCCATCTTGAGAAACT
DzCYP72A5	(445)	TGGGCCAAACACAGAAGGATCATCAACCCTGCATTCCATCTTGAGAAACT
DzCYP72A10	(445)	TGGGTCAAACACAGAGGATCATCAACCCTGCATTCCATTTTGAGAAACT
DzCYP72A3	(439)	TGGGTCAAACACAGAAGGATCATCAACCCTGCATTCCATTTTGAGAAACT
DzCYP72A6	(388)	TGGGTCAAACACAGAAGGATCATCAACCCTGCATTCCATTTTGAGAAACT
DzCYP72A11	(442)	TGGGCCAAACATAGAAAGGATCTCAACCCTGCATTCCATCTTGAGAAACT
DzCYP72A4	(442)	TGGGCCAAACATAGAAAGGATACTCAACCCTGCATTCCATCTTGAGAAACT
DzCYP72A7	(349)	TGGGCCAAACATAGAAAGGATCTCAACCCTGCATTCCATCTAGAGAAACT
DzCYP72A12	(445)	TGGGCCAAACACAGAAGGATCATCAATCCTGCATTCCATCTTGAGAAACT
DzCYP72A13	(445)	TGGGCCAAACACAGAAGGATAATTAAACCCTGCATTCCATCTTGAGAAACT
		501
DzCYP72A1	(495)	AAAGCTAATGCTTCCAGCATTCTCTACATCTTGTGGTGAAC TGATTAGAA
DzCYP72A8	(495)	AAAGCTAATGCTTCCAGCATTCTCTACATCTTGTGGTGAAC TGATTAGAA
DzCYP72A2	(501)	AAAGCTAATGCTTCCAGCATTCTCTACATCTTGTGGTGAAC TGATTAGAA
DzCYP72A9	(501)	AAAGCTAATGCTTCCAGCATTCTCTACATCTTGTGGTGAAC TGATTAGAA
DzCYP72A5	(495)	AAAGCTAATGCTTCCAGCATTCTCTACATCTTGTGGTGAAC TGATTAGAA
DzCYP72A10	(495)	AAAGCAAATGCTGCCAGCATTCTCTACGTCTTGTGGTGAAC TTATTAGAA
DzCYP72A3	(489)	AAAGCAAATGCTGCCAGCATTCTCTACGTCTTGTGGTGAAC TTATTAGAA
DzCYP72A6	(438)	AAAGCAAATGCTGCCAGCATTCTCTACGTCTTGTGGTGAAC TTATTAGAA
DzCYP72A11	(492)	AAAGCTAATGTTGCCAGCATTCTCTACATCTTGTAGTGAATTGATTAGAA
DzCYP72A4	(492)	AAAGCTAATGTTGCCAGCATTCTCTACATCTTGTAGTGAATTGATTAGAA
DzCYP72A7	(399)	AAATCTAATGTTGCCAGCATTCTCTACATCTTGTAGTGAATTGATTAGAA
DzCYP72A12	(495)	AAAGCTAATGCTGCCAGCATTCTCTACATCTTCTGGTGAAC TGATTAGAA
DzCYP72A13	(495)	AAAGCTAATGCTGCCAGCATTCTCTACATCTTCTGGTGAAC TGATTAGAA
		551
DzCYP72A1	(545)	GATGGGAGAAGATGATCCCTGATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A8	(545)	GATGGGAGAAGATGATCCCTGATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A2	(551)	GATGGGAGAAGATGATCCCTGATGAAGGCTCCCATGAACTAAATGTCTTT
DzCYP72A9	(551)	GATGGGAGAAGATGATCCCTGATGAAGGCTCCCATGAACTAAATGTCTTT
DzCYP72A5	(545)	GATGGGAGAAGATGATCCCTGATGAAGGCTCCCATGAACTAAATGTCTTT
DzCYP72A10	(545)	GATGGAAACAAGATGATCCCTGATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A3	(539)	GATGGAAACAAGATGATCCCTGATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A6	(488)	GATGGAAACAAGATGATCCCTGATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A11	(542)	GATGGGAGGAGAAGATTCTGATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A4	(542)	GATGGGAGAAGATGATTCCTGATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A7	(449)	GATGGGAGAAGATGATTCCTGATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A12	(545)	GATGGGAGAAGATGATTCCTAATGAAGGCTCCCAAGAACTAAATGTCTTT
DzCYP72A13	(545)	GATGGGAGAAGATGATTCCTGATGAAGGCTCCCAAGAACTAAATGTCTTC
		601
DzCYP72A1	(595)	TCCAGAGCTCCAAGACCTCACAAAAGATGTCATCTCCAGGACTGCATTTCG
DzCYP72A8	(594)	TCCAGAGCTCCAAGACCTCACAAAAGATGTCATCTCCAGGACTGCATTTCG
DzCYP72A2	(600)	TCCAGAGCTCCAAGACCTCACAAAAGATGTCATCTCCAGGACTGCATTTCG
DzCYP72A9	(600)	TCCAGAGCTCCAAGACCTCACAAAAGATGTCATCTCCAGGACTGCATTTCG
DzCYP72A5	(594)	TCCAGAGCTCCAAGACCTCACAAAAGATGTCATCTCCAGGACTGCATTTCG
DzCYP72A10	(594)	TCCAGAGCTCCAAGGCCTCACAAAAGATATCATCTCCAGAACCGCATTTCG
DzCYP72A3	(588)	TCCAGAGCTCCAAGGCCTCACAAAAGATATCATCTCCAGAACCGCATTTCG
DzCYP72A6	(537)	TCCAGAGCTCCAAGGCCTCACAAAAGATATCATCTCCAGAACCGCATTTCG
DzCYP72A11	(591)	TCCAGAGCTCCAAGGCCTCACAAAAGATGTCATCTCTAGGACTGCATTTCG
DzCYP72A4	(591)	TCCAGAGCTCCAAGGCCTCACAAAAGATGTCATCTCTAGGACTGCATTTCG
DzCYP72A7	(498)	TCCAGAGCTCCAAGGCCTCACAAAAGATGTCATCTCTAGGACTGCATTTCG
DzCYP72A12	(594)	TCCAGAGCTCCAAGACCTCACAAAAGATGTCATCTCCAGGACTGCATTTCG
DzCYP72A13	(594)	GCCAGAGATCCAATAACCTCACAGGAGATGTCATCTCCAGGACTGCATTTCG
		651
DzCYP72A1	(645)	-TAGCAGCTATGAAGAAAGAG---AAGAATATTTGAACTCCTAGCAGAA
		700



DzCYP72A8	(644)	GTAGCAGCTATGAAGAAGGAAG----	AAGAATATTTGAACTCCTAGCAGA
DzCYP72A2	(650)	GTAGCAGCTATGAAGAAGGAAG----	AAGAATATTTGAACTCCTAGCAGA
DzCYP72A9	(650)	GTAGCAGCTATGAAGAAGGAAG----	AAGAATATTTGAACTCCTAGCAGA
DzCYP72A5	(643)	GTAGCAGCTATGAAGAAGGAAGGAAG	AAGAATATTTGAACTACTAGCAGA
DzCYP72A10	(644)	GTAGCAGCTATGAAGAAGGGAG----	AAGAATATTTGAACTCCTAACTGA
DzCYP72A3	(638)	GTAGCAGCTATGAAGAAGGGAG----	AAGAATATTTGAACTCCTAACTGA
DzCYP72A6	(587)	GTAGCAGCTATGAAGAAGGGAG----	AAGAATATTTGAACTCCTAACTGA
DzCYP72A11	(641)	GTAGCAGCTATGAAGAAGGGAG----	AAGAATATTTGAACTCCTAAAAGA
DzCYP72A4	(641)	GTAGCAGCTATGAAGAAGGGAG----	AAGAATATTTGAACTCCTAAAAGA
DzCYP72A7	(548)	GTAGCAGCTATGAAGAAGGGAG----	AAGAATATTTGAACTCCTAAAAGA
DzCYP72A12	(644)	GTAGCAGTTACGAAGACGGAAG----	AAGAATATTTGAACTCCTAACAGA
DzCYP72A13	(644)	GTAGCAGCTATGAAGAAGGGAG----	AAGAATATTTGAACTCCTAACAGA
		701	750
DzCYP72A1	(690)	GCAAATTCAGCTTCTTATCCAGCTTTCCAGACTATATACATCCCTGGTT	
DzCYP72A8	(690)	GCAAATTCAGCTTCTTATCCAGCTTTCCAGACTATATACATCCCTGGTT	
DzCYP72A2	(696)	GCAAATTCAGCTTCTTATCCAGCTTTCCAGACTATATACATCCCTGGTT	
DzCYP72A9	(696)	GCAAATTCAGCTTCTTATCCAGCTTTCCAGACTATATACATCCCTGGTT	
DzCYP72A5	(693)	GCAAATTCAGCTTCTTATCCAGCTTTCCAGACTTTATACATCCCTGGTT	
DzCYP72A10	(690)	ACAAATTAAGCTTACTATTCCAGCTTTCAAGACTGTATACATCCCTGGTT	
DzCYP72A3	(684)	ACAAATTAAGCTTACTATTCCAGCTTTCAAGACTGTATACATCCCTGGTT	
DzCYP72A6	(633)	ACAAATTAAGCTTACTATTCCAGCTTTCAAGACTGTATACATCCCTGGTT	
DzCYP72A11	(687)	GCAAATTCAGCTTTATATTCAAGTTTACAAGACTGTATACATCCCTGGTT	
DzCYP72A4	(687)	GCAAATTCAGCTTTATATTCAAGTTTACAAGACTGTATACATCCCTGGTT	
DzCYP72A7	(594)	GCAAATTCAGCTTTATATTCAAGTTTACAAGACTGTATACATCCCTGGTT	
DzCYP72A12	(690)	GCAAATTCAGCTTCTTATCCAGCTTTCCAGACTGTATACATCCCTGGTT	
DzCYP72A13	(690)	GCAAATTCATCTTACTATTCCAGCTTTGCAGACTGTATACATCCCTGGTT	
		751	800
DzCYP72A1	(740)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTGTACAAT	
DzCYP72A8	(740)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTGTACAAT	
DzCYP72A2	(746)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTGTACAAT	
DzCYP72A9	(746)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTGTACAAT	
DzCYP72A5	(743)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTGTACAAT	
DzCYP72A10	(740)	ATCAATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTGTACAAT	
DzCYP72A3	(734)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTGTACAAT	
DzCYP72A6	(683)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTGTACAAT	
DzCYP72A11	(737)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTATATAAT	
DzCYP72A4	(737)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTATACAAT	
DzCYP72A7	(644)	ATCGATTTTCTGCCCACACCAATGAACAAAAGAAGAAGCCAAGTATACAAT	
DzCYP72A12	(740)	TTCGATTTTCTGCCCACACCAATGAACAAAAGAAGCAGCCAAGTGTACAAT	
DzCYP72A13	(740)	ATCGGTTTCTGCCCACACCAATGAACAAAGAAGAAGCCAAGTTACAAT	
		801	850
DzCYP72A1	(790)	GAGATGAAAAGAATTCTTAAAGGCATGATAG-	AGAAGAGAGAGAAGGCCA
DzCYP72A8	(790)	GAGATGAAAAGAATTCTTAAAGGCATGATCG-	AGAAGAGAGAGAAGGCCA
DzCYP72A2	(796)	GAGATGAAAAGAATTCTTAAAGGCATGATAG-	AGAAGAGAGAGAAGGCCA
DzCYP72A9	(796)	GAGATGAAAAGAATTCTTAAAGGCATGATAG-	AGAAGAGAGAGAAGGCCA
DzCYP72A5	(793)	GAGATGAAAAGAATTCTTAAAGGCATGATCG-	AGAAGAGAGAGAAGGCCA
DzCYP72A10	(790)	GAGATGAAAAGAATTCTTAAAGGCATGATTG-	AGAAGAGAGAGAAGGCCA
DzCYP72A3	(784)	GAGATGAAAAGAATTCTTAAAGGCATGATTG-	AGAAGAGAGAGAAGGCCA
DzCYP72A6	(733)	GAGATGAAAAGAATTCTTAAAGGCATGATTG-	AGAAGAGAGAGAAGGCCA
DzCYP72A11	(787)	GAGATGAAAAGAATTCTTAAAGGCATGATTG-	AGAAGAGAGAAAAGGCTA
DzCYP72A4	(787)	GAGATGAAAAGAATTCTTAAAGGCATGATTGG	AGAAGAGAGAAAAGGCCA
DzCYP72A7	(694)	GAGATGAAAAGAATTCTTAAAGGCATGATTG-	AGAAGAGAGAAAAGGCCA
DzCYP72A12	(790)	GAGATGAAAAGAATTCTTATAGGCATGATTG-	AGAAGAGAGAGAAGGCCA
DzCYP72A13	(790)	GAGATGAAAAGAATTCTTAAAGGCATGATTG-	AGAAGAGAGAGAAGGCCA
		851	900
DzCYP72A1	(839)	TAAGAATGGGGGACAGTAGCAAGAATGACCTTCTGGGTTTGT	TACTAGAC
DzCYP72A8	(839)	TAAGAATGGGGGGAAGGTAGCAAGAATGACCTTCTGGGTTTGT	TACTAGAC

DzCYP72A2	(845)	TAAGAATGGGGGACAGTAGCAAGAATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A9	(845)	TAAGAATGGGGGACAGTAGCAAGAATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A5	(842)	TAAGAATGGGGGAAAGTAGCAAGAATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A10	(839)	TAAGAATGGGGGAAAGTAGCAAGAATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A3	(833)	TAAGAATGGGGGAAAGTAGCAAGAATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A6	(782)	TAAGAATGGGGGAAAGTAGCAAGAATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A11	(836)	TAAGAATGGGGGAAAGTTCTAAGGATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A4	(837)	TAAGAATGGGG-AAAAGTTCTAAGGATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A7	(743)	TAAGAATGGGGGAAAGTTCTAAGGATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A12	(839)	TAAGAATGGGGGAAAGTAACAAGAATGACCTTCTGGGTTTGTTACTAGAC
DzCYP72A13	(839)	TAAGAATGGGGGAAAGTAGCAAGAATGACCTTCTGGGTTTGTTACTAGAC
		901 950
DzCYP72A1	(889)	TCCAATATGAAGGAGGGTGAAGAGCATGGGAAGTCCCAAAATAAAGGGAT
DzCYP72A8	(889)	TCCAATATCAAAGAGAGTGAAGAGCATGGGAAGTCCCAAAACAAAGTGAT
DzCYP72A2	(895)	TCCAATATGAAGGAGGGTGAAGAGCATGGGAAGTCCCAAAACAAAGGGAT
DzCYP72A9	(895)	TCCAATATGAAGGAGGGTGAAGAGCATGGGAAGTCCCAAAACAAAGGGAT
DzCYP72A5	(892)	TCCAATATCAAAGAGAGTGAAGAGCATGGGAAGTCCCAAAACAAAGTGAT
DzCYP72A10	(889)	TCCAATATGCAGGAGGGTGAAGAGCATGGGAAGTCCCAAGACAAAGGGAT
DzCYP72A3	(883)	TCCAATATGCAGGAGGGTGAAGAGCATGGGAAGTCCCAAGACAAAGGGAT
DzCYP72A6	(832)	TCCAATATGCAGGAGGGTGAAGAGCATGTGAAGTCCCAAGACAAAGGGAT
DzCYP72A11	(886)	TCCAATATGAAGGAGGGTGAAGAGCATGGCAAGACCCAAACAAAGGGAT
DzCYP72A4	(886)	TCCAATATGAAGGAGGGTGAAGAGCATGGCAAGTCCCAAAACAAAGGGAT
DzCYP72A7	(793)	TCCAATATGAAGGAGGGTGAAGAGCATGGCAAGTCCCAAAACAAAGGGAT
DzCYP72A12	(889)	TCCAATATGAAGGAGGGTGAAGAGCATAGGAAGTCCCAAAACAAAGGGAT
DzCYP72A13	(889)	TCCAATATGAAGGAGGGTGAAGAGCAGGAGAAGTCCCAAAACAAAGTGAT
		951 1000
DzCYP72A1	(939)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTGTTCTACTTTGCAGGGC
DzCYP72A8	(939)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTATTCTACTTTGCAGGGC
DzCYP72A2	(945)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTGTTCTACTTTGCAGGGC
DzCYP72A9	(945)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTGTTCTACTTTGCAGGGC
DzCYP72A5	(942)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTATTCTACTTTGCAGGGC
DzCYP72A10	(939)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTGTTTACATTGCAGGGC
DzCYP72A3	(933)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTGTTTACATTGCAGGGC
DzCYP72A6	(882)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTGTTTACATTGCAGGGC
DzCYP72A11	(936)	GAGCACTGAGGAAGTGATTGAAGAGTGCAAGCTGTTCTACTTTGCAGGGC
DzCYP72A4	(936)	GAGCACTGAGGAAGTGATTGAAGAGTGCAAGCTGTTCTACTTTGCAGGGC
DzCYP72A7	(843)	GAGCACTGAGGAAGTGATTGAAGAGTGCAAGCTGTTCTACTTTGCAGGGC
DzCYP72A12	(939)	GAGTACTGAGGATGTGATTGAAGAGTGCAAGCTGTTCTACTTTGCAGGGC
DzCYP72A13	(939)	GAGCACTGAGGATGTGATTGAAGAGTGCAAGCTGTTCTACTTTGCAGGGC
		1001 1050
DzCYP72A1	(989)	AAGAGACTACA---GAGTTCTACTCACATGGACAATGATTTTATTGAGC
DzCYP72A8	(989)	AAGAGACTACA---TCAGTTTCTACTCACATGGACAATGATTTTATTGAGC
DzCYP72A2	(995)	AAGAGACTACA---GAGTTCTACTCACATGGACAATGATTTTATTGAGC
DzCYP72A9	(995)	AAGAGACTACA---GAGTTCTACTCACATGGACAATGATTTTATTGAGC
DzCYP72A5	(992)	AAGAGACTACA---TCAGTTTCTACTCACATGGACAATGATTTTATTGAGT
DzCYP72A10	(989)	AAGAGACTACA---TCAGCTCTACTCACTTGGACAATGATTTTATTGAGC
DzCYP72A3	(983)	AAGAGACTACA---TCAGCTCTACTCACTTGGACAATGATTTTATTGAGC
DzCYP72A6	(932)	AAGAGACTACA---TCAGCTCTACTCACTTGGACAATGATTTTATTGAGC
DzCYP72A11	(986)	AAGAGACTACC---TCAGTTTCTACTCACATGGACAATGATTTTATTGAGC
DzCYP72A4	(986)	AAGAGACTACC---TCAGTTTCTACTCACATGGACAATGATTTTATTGAGC
DzCYP72A7	(893)	AAGAGACTACC---TCAGTTTCTACTCACATGGACAATGATTTTATTGAGC
DzCYP72A12	(989)	AAGAGACTACA---TCAGTTCTACTCACATGGACAATGATTTTATTGAGC
DzCYP72A13	(989)	AAGAGACTACA---TCAGTTCTACTCACATGGACAATGATTTTATTGAGC
		1051 1100
DzCYP72A1	(1036)	ATGTATCCAAACTGGCAGGCTAAGGCAAGAGAAGAGGTACTTCAAGTCTT
DzCYP72A8	(1036)	ATGTATCCAAACTGGCAGGGTAAGGCAAGAGAAGAGGTACTTCAAGTCTT
DzCYP72A2	(1042)	ATGTATCCAAACTGGCAGGGTAAGGCAAGAGAAGAGGTACTTCAAGTCTT

DzCYP72A9	(1042)	ATGTATCCAACTGGCAGGCTAAGGCAAGAGAAGAGGTTACTTCAAGTCTT
DzCYP72A5	(1039)	ATGTATCCGAAC TGGCAGGCTAAGGCAAGAGAAGAGGTTCTTCAAGTCTT
DzCYP72A10	(1036)	ATGTATCCGAAC TGGCAGGCTAATGCAAGAGAAGAGGTTCTTCAAGTCTT
DzCYP72A3	(1030)	ATGTATCCGAAC TGGCAGGCTAATGCAAGAGAAGAGGTTCTTCAAGTCTT
DzCYP72A6	(979)	ATGTATCCGAAC TGGCAGGCTAATGCAAGAGAAGAGGTTCTTCAAGTCTT
DzCYP72A11	(1033)	ATGTATCCGAAC TGGCAGGCTAAGGCAAGAGAAGAGGTTCTTCAAGTCTT
DzCYP72A4	(1036)	ATGTATCCGAAC TGGCAGACTAAGGCAAGAGAAGAGGTTCTTAAAGTCTT
DzCYP72A7	(940)	ATGTATCCGAAC TGGCAGACTAAGGCAAGAGAAGAGGTTCTTAAAGTCTT
DzCYP72A12	(1036)	ATGTATCCAAAT TGGCAGGCTAAGGCAAGAGAAGAGGTTCTTCAAGTCTT
DzCYP72A13	(1036)	ATGTATCCTAAC TGGCAGGCCAAGGCAAGAGAAGAGGTTCTTCAAGTCTT
	1101	1150
DzCYP72A1	(1086)	TGGAAAGAACACACCAGACATGGAGGGATTGAGCCACTTGAAGATTGTGA
DzCYP72A8	(1086)	TGGAAAGAGCACACCAGATATGGAGGGATTGAACCACTTGAAGATTGTGA
DzCYP72A2	(1092)	TGGAAAGAGCACACCAGATATGGAGGGATTGAACCACTTGAAGATTGTGA
DzCYP72A9	(1092)	TGGAAAGAGCACACCAGATATGGAGGGATTGAACCACTTGAAGATTGTGA
DzCYP72A5	(1089)	TGGAAAGAACACACCAGACATGGAGGGATTGAGCCACTTGAAGATTGTGA
DzCYP72A10	(1086)	TGGAAAGAGCACACCAGACATAGAGGGATTGAGCCACTTGAAGATTGTGA
DzCYP72A3	(1080)	TGGAAAGAGCACACCAGACATAGAGGGATTGAGTCACTTGAAGATTGTGA
DzCYP72A6	(1029)	TGGAAAGAGCACACCAGACATAGAGGGATTGAGTCACTTGAAGATTGTGA
DzCYP72A11	(1083)	TGGAAAGAACACACCAGACATGGAGGGATTGAGCCACTTGAAGATTGTGA
DzCYP72A4	(1086)	TGGAAAGAACACACCAGACATGGAGGGATTGAGCCACTTGAAGATTGTGA
DzCYP72A7	(990)	TGGAAAGAACACACCAGACATGGAGGGATTGAGCCACTTGAAGATTGTGA
DzCYP72A12	(1086)	TGGAAAGAGCGCACCAGATATGGAGGGATTGAGCCACTTGAAGATTGTGA
DzCYP72A13	(1086)	TGGAAAGAGCACACCAGACATGGATGGATTGAGCCGCTTGAAGATTGTGA
	1151	1200
DzCYP72A1	(1136)	CCATGATTCTATATGAAGTTCTGAGGTTATATCCACCATTGTTTACTA
DzCYP72A8	(1136)	CCATGATTCTATATGAAGTTCTGAGGTTATATCCACCATTGTTTCTTA
DzCYP72A2	(1142)	CCATGATTCTATATGAAGTTCTGAGGTTATATCCACCATTGTTTCTTA
DzCYP72A9	(1142)	CCATGATTCTATATGAAGTTCTGAGGTTATATCCACCATTGTTTCTTA
DzCYP72A5	(1139)	CCATGATTCTATATGAAGTTCTGAGGTTATATCCACCATTGTTTACTA
DzCYP72A10	(1136)	CCATGATTCTATATGAAGTTCTCAGGTTATATCCACCAGGGGTTTTCTT
DzCYP72A3	(1130)	CCATGATTCTATATGAAGTTCTCAGGTTATATCCACCAGGGGTTTTCTT
DzCYP72A6	(1079)	CCATGATTCTATATGAAGTTCTCAGGTTATATCCACCAGGGGTTTTCTT
DzCYP72A11	(1133)	CCATGATTCTATATGAAGTTCTTAGGTTATATCCACCAGTGGTTTTCTA
DzCYP72A4	(1136)	CCATGATTCTATATGAAGTTCTTAGGTTATATCCACCAGTGGTTTTCTA
DzCYP72A7	(1040)	CCATGATTCTATATGAAGTTCTTAGGTTATATCCACCAGTGGTTTTCTA
DzCYP72A12	(1136)	CCATGATTCTATATGAAGTTCTAAGGTTATATCCACCAGCGGTTTTCTA
DzCYP72A13	(1136)	CCATGATTCTGATGAAGTTCTGAGGTTATATCCACCAGGTGACTTTCTA
	1201	1250
DzCYP72A1	(1186)	AGAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCC
DzCYP72A8	(1186)	ACAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCA
DzCYP72A2	(1192)	ACAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCA
DzCYP72A9	(1192)	ACAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCA
DzCYP72A5	(1189)	AGAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCC
DzCYP72A10	(1186)	GATAGAAAAACCTACAAAGCAATGGAACCTGGTGGGATTACTTACCCTTC
DzCYP72A3	(1180)	GATAGAAAAACCTACAAAGCAATGGAACCTGGTGGGATTACTTACCCTTC
DzCYP72A6	(1129)	GATAGCAAAACCTC CAAAGCAATGGAACCTGGTGGGATTACTTACCCTTC
DzCYP72A11	(1183)	ACAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCC
DzCYP72A4	(1186)	ACAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCC
DzCYP72A7	(1090)	ACAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCC
DzCYP72A12	(1186)	ACAAGAAAAACCTACAAAGCAATGGAACTCGGTGGGATTACTTACCCTCC
DzCYP72A13	(1186)	ACCAGAAAAACATACAAAGCAATGGAACCTGGTGGGATCAATTACCCTCC
	1251	1300
DzCYP72A1	(1236)	GGGAGTGATGCTCTCACTGCCTCTACTCTTCATTCACCATGACCCTGCTT
DzCYP72A8	(1236)	AGGAGTGATACTCTCACTGCCTCTACTCTTCATTCACCATGACCCTGCTT
DzCYP72A2	(1242)	AGGAGTGATACTCTCACTGCCTCTACTCTTCATTCACCATGACCCTGCTT
DzCYP72A9	(1242)	AGGAGTGATACTCTCACTGCCTCTACTCTTCATTCACCATGACCCTGCTT

DzCYP72A5	(1239)	GGGAGTGA	TACTCTCACTGCCTCTACTCTTCATTACCAATGACCCTGCTT
DzCYP72A10	(1236)	AGGAGTGA	TACTCTCACTACCTCTACTCTTCATTACCAATGACCCTACTT
DzCYP72A3	(1230)	AGGAGTGA	TACTCTCACTACCTCTACTCTTCATTACCAATGACCCTACTT
DzCYP72A6	(1179)	AGGAGTGA	TACTCTCACTACCTCTACTCTTCATTACCAATGACCCTACTT
DzCYP72A11	(1233)	AGGAGTGA	TATTCCTATTCCTTTACTCTTCATTACCAATGACCCTACTT
DzCYP72A4	(1236)	AGGAGTGA	TATTCCTATTCCTTTACTCTTCATTACCAATGACCCTACTT
DzCYP72A7	(1140)	AGGAGTGA	TATTCCTATTCCTTTACTCTTCATTACCAATGACCCTACTT
DzCYP72A12	(1236)	AGGAGTGA	TACTCTCACTGCCTCTACTCTTCATTACCAATGACCCTGTTT
DzCYP72A13	(1236)	AGGAGTGT	TACTCAACTGCCTCTACTCTTCATTACCAATGACCCTGAAT
		1301	1350
DzCYP72A1	(1286)	TTTGGGGAGAAGACGCCAAAGAGTTT	AATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A8	(1286)	TTTGGGGAGAAGACGCCAAAGAGTTT	AATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A2	(1292)	TTTGGGGAGAAGACGCCAAAGAGTTT	AATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A9	(1292)	TTTGGGGAGAAGACGCCAAAGAGTTT	AATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A5	(1289)	TTTGGGGAGAAGACGCCAAAGAGTTT	AATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A10	(1286)	TCTGGGGAGAGGATGCCAAAGAGTT	CAATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A3	(1280)	TCTGGGGAGAGGATGCCAAAGAGTT	CAATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A6	(1229)	TCTGGGGAGAGGATGCCAAAGAGTT	CAATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A11	(1283)	TTTGGGGAGAAGATGCCAAAGAGTT	AATCCAGAGAGGTTTTCTGAAGGG
DzCYP72A4	(1286)	TTTGGGGAGAAGATGCCAAAGAGTT	AATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A7	(1190)	TTTGGGGAGAAGATGCCAAAGAGTT	AATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A12	(1286)	TCTGGGGAGAAGACGCCAAAGAGTT	AATCCAGAGAGGTTTTCCGAAGGG
DzCYP72A13	(1286)	TCTGGGGAGAAGACGCCAAAGAGTT	CAATCCAGAGAGGTTTTCTGAAGGG
		1351	1400
DzCYP72A1	(1336)	ATATCAAAGCATCCAAAGTTCCAGGTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A8	(1336)	ATATCAAAGCATCCAAAGTTCCGGGTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A2	(1342)	ATATCGAAAGCATCCAAAGTTCCGGGTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A9	(1342)	ATATCGAAAGCATCCAAAGTTCCGGGTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A5	(1339)	ATATCGAAAGCATCCAAAGTTCCAGGTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A10	(1336)	ATATCGAAAGCATCCAAAGTTCCAGGTGCCTTCTTT	ACCTTTATGGTGTAGG
DzCYP72A3	(1330)	ATATCAAAGCATCCAAAGTTCCAGGTGCCTTCTTT	TCCTTTTGGTGGAGG
DzCYP72A6	(1279)	ATATCGAAAGCATCCAAAGTTACAGGTGCCTTCTTT	TCCTTTTGGTGGAGG
DzCYP72A11	(1333)	ATATCGAAAGCATCCAAAGTTCCGGCTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A4	(1336)	ATATCGAAAGCATCCAAAGTTCCGGCTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A7	(1240)	ATATCGAAAGCATCCAAAGTTCCGGCTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A12	(1336)	ATATCGAAAGCATCCAAAGTTCCAGGTGCCTTCTTT	TCCTTTCCGGTGGAGG
DzCYP72A13	(1336)	ATATTGAAAGCATCCAAAGTTCCGGGTGCCTTCTTT	TCCTTTCCGGTGGAGG
		1401	1450
DzCYP72A1	(1386)	TCCACGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A8	(1386)	TCCGCGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A2	(1392)	TCCGCGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A9	(1392)	TCCGCGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A5	(1389)	TCCACGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A10	(1386)	TCCGCGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A3	(1380)	TCCGCGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A6	(1329)	TCCGCGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A11	(1383)	TCCACGCATTTGCATTGGTCAAAACTTTGCAATGATTCAAGCTAAGATAG	
DzCYP72A4	(1386)	TCCACGCATTTGCATTGGTCAAAACTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A7	(1290)	TCCACGCATTTGCATTGGTCAAAACTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A12	(1386)	TCCGCGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
DzCYP72A13	(1386)	TCCGCGCATTTGCATTGGCCAAAGCTTTGCAATGATTGAAGCTAAGATAG	
		1451	1500
DzCYP72A1	(1436)	GAATTTGCATGATTCTTCAGTGT	TTCTCCTTTGAGCTTTTCACTTTCC
DzCYP72A8	(1436)	GAATTTGCATGATTCTTCAGCG	CTTCTCCTTTGAGCTTTTCGCTTTCC
DzCYP72A2	(1442)	GAATTTGCATGATTCTTCAGCG	CTTCTCCTTTGAGCTTTTAA-----
DzCYP72A9	(1442)	GAATTTGCATGATTCTTCAGCG	CTTCTCCTTTGAGCTTTTCGCTTTCC
DzCYP72A5	(1439)	GAATTTGCATGATTCTTCAGTGT	TTCTCCTTTGAGCTTTTCACTTTCC

DzCYP72A10	(1436)	GAATTG	CATGAT	TA	ATTCAG	CAC	TTCTC	ATT	TGTGCT	TT	CAC	---	CTTCC					
DzCYP72A3	(1430)	GAATTG	CATGAT	TA	ATTCAG	CAC	TTCTC	ATT	TGTGCT	TT	CAC	---	CTTCC					
DzCYP72A6	(1379)	GAATTG	CATGAT	TA	ATTCAG	CAC	TTCTC	ATT	TGTGCT	TT	CAC	---	CTTCC					
DzCYP72A11	(1433)	GAAT	CTGCATGAT	TC	TTTCAG	CAC	TTTTC	CTT	TGTGCT	TT	TCG	---	TTTCC					
DzCYP72A4	(1436)	GAATTG	CATGAT	TC	TTTCAG	CAC	TTTTC	CTT	TGTACT	TT	TCG	TGCT	TTCC					
DzCYP72A7	(1340)	GAATTG	CATGAT	TC	TTTCAG	CAC	TTTTC	CTT	TGTACT	TT	TCG	---	TTTCC					
DzCYP72A12	(1436)	GAATTG	CATGAT	TC	TTTCAG	CAC	TTTTC	CTT	TGTGCT	TT	TCG	---	CTTCC					
DzCYP72A13	(1436)	GAATT	AGCATGAT	TC	TTTCAG	CAC	TTTTC	CTT	CGTGCT	TT	TCG	---	CTTCG					
		1501									1550							
DzCYP72A1	(1483)	TATATCCATGCACCGCACACTGTTATTACTCTTCAACCACAGCATGGGGC																
DzCYP72A8	(1483)	TATATCCATGCACCGCACACTGTTATTACTCTTCAACCACAGCATGGGGC																
DzCYP72A2	(1483)	-----																
DzCYP72A9	(1489)	TATATCCATGCACCGCACACTGTTATTACTCTTCAACCACAGCATGGGGC																
DzCYP72A5	(1486)	TATATCCATGCACCGCACACTGTTATTACTCTTCAACCACAGCATGGGGC																
DzCYP72A10	(1483)	TATATCCATGCACCGCAC												T	CTGTTATTACTCTTCAACCACAGCATGGAGC			
DzCYP72A3	(1477)	TATATCCATGCACCGCAC												T	CTGTTATTACTCTTCAACCACAGCATGGAGC			
DzCYP72A6	(1426)	TATATCCATGCACCGCAC												T	CTGTTATTACTCTTCAACCACAGCATGGAGC			
DzCYP72A11	(1480)	TATAT												T	CATGCACCGCACACTGTTATTACTCTTCAACCACAGCATGGAGC			
DzCYP72A4	(1486)	TATAT												T	CATGCACCGCACACTGTTATTACTCTTCAACCAGAGCATGGAGC			
DzCYP72A7	(1387)	TATAT												T	CATGCACCGCACACTGTTATTACTCTTCAACCAGAGCATGGAGC			
DzCYP72A12	(1483)	TATATCCATGCACCGCACA												A	TGTTATTACTCTTCAACCACAGCATGGAGC			
DzCYP72A13	(1483)	TATATCCATGCACCGCACACTG												C	TCTTACTCTTCAACCACAGCATGGAGC			
		1551									1575							
DzCYP72A1	(1533)	TCAACTCATGCTGCAAAAGCTGTGA																
DzCYP72A8	(1533)	TCAACTCATGCTGCAAAAGCTGTGA																
DzCYP72A2	(1483)	-----																
DzCYP72A9	(1539)	TCAACTCATGCTGCAAAAGCTGTGA																
DzCYP72A5	(1536)	TCAACTCATGCTGCAAAAGCTGTGA																
DzCYP72A10	(1533)	TCAACTCATGCTGCAAAAGCTGTGA																
DzCYP72A3	(1527)	TCAACTCATGCTGCAAAAGCTGTGA																
DzCYP72A6	(1476)	TCAACTCATGCTGCAAAAGCTGTGA																
DzCYP72A11	(1530)	TCAACTCATGCTGCAAAAG												T	TGTGA			
DzCYP72A4	(1536)	TCAACTCATGCTGCAAAAG												T	TGTGA			
DzCYP72A7	(1437)	TCAACTCATGCTGCAAAAG												T	TGTGA			
DzCYP72A12	(1533)	TCAACTCATGCTGCAAAAGCTGTGA																
DzCYP72A13	(1533)	TCAACTCATGCT												T	CAAAA	A	CT	CTGA