

## Supplemental data

**Journal:** *Drug Metabolism and Disposition*

**Title:** Identification of *CYP2W1* genetic polymorphisms in the three main Chinese ethnicities: Han, Tibetan, and Uighur

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**Legends for supplemental figures and tables**

**Supplemental Figure 1.** The location of amplification primers in *CYP2W1* gene sequence (reference sequence: NC\_000007.14), which was highlighted in different colors.

**Supplemental Table 1.** Primers for *CYP2W1* amplification and sequencing.

**Supplemental Table 2.** Frequency of identified *CYP2W1* nsSNPs in different populations.

**Supplemental Table 3.** Allelic distribution and comparison of identified variants in *CYP2W1* in three populations.

## Supplemental Figures

Physical position	sequence	
982, 199	tagtgagetc cccaccacag gaggcgtgca actgtgctg gggc <b>tttccc</b>	Fp1
982, 249	<b>tcccagctaa</b> tcaagggga ccaaccggg aggggtgagg gcctcaggct	
982, 299	gcctcggetc tgcggttegt acagggcatg ggcaacgccc cagagacagg	
982, 349	ctgtggggag ggtcccgcct gctggcacca gctccagctg cctcatgtca	
982, 399	gggcaggctg tgcaaacgag gcccgggcgc ttctgctgcc agcagccctc	
982, 449	ccaccctca cagcggttta ggagacagat ggacaggget cgtaaacCcc	
982, 499	gccacctgcc accggcagc ctttccatgt tctgtccta gctcagaggg	
982, 549	ttgcatcccc tgcccgggog gcagccctcg aaaaggagca ggetgctacc	
982, 599	tggggcgaga acaccctcag ggagatgcag gtggtggcct gtgaggactg	
982, 649	tgggatttga gtcccctcat gggcctccct gaggtctcac tctgtccct	
982, 699	tgccccgtgg ggagctgate agagaagagc tgggtgcaca cggatgggg	
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982, 799	gtgaaaggca gggggetccc ctccaagcca gggcctcggc cccaaagccc	
982, 849	tgtgaatccc agttctgagg ggtggccaag gccaaagggc ctggactggc	
982, 899	aggttcagca gaaccagggg cagaacagtc cacgtgccac atccttctct	
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982, 999	cccctccccg gccccaccag ggctcagcc ccacattcca cgcaggcctg	
983, 049	cagetttaag ccatcogctg ggggctgccc tgc <b>aaactgc tegtccaca</b>	Rp Fp2
983, 099	<b>ttctc</b> gggggt ggtgggggtg gtgggtgcg ggcacgcct cccgcggagg	
983, 149	cctataaggg tgcggggggg acggggccca ggaggggagt ggagcctcac	
983, 199	cagccacgtc ctcATGGCCC TGCTGCTCTT GCTGTTCTG GGCCTCCTGG	Exon 1
983, 249	GGCTCTGGGG GCTGCTCTGC GCCTGCGCCC AAGACCCCTC CCCAGCTGCC	
983, 299	CGGTGGCCCC CGGGGCTCG CCCGCTGCCG CTCGTCGGGA ACCTGCACTT	
983, 349	GCTGCGTCTG TCGCAACAGG ACCGGTCCCT GATGGAGGTA AGTCAGGGAG	Intron 1
983, 399	CCCGGCAGC TCTTGCCGCT TGGACAGCTG CCGTGTCTG GCCCCCTCC	
983, 449	TGGGAAGCC CAGCCCGTT TCCA CTGCTT GTTCCCACAT GGTGCCGGG	
983, 499	CCAGCGGGG ACGCAGGAG CCGGAGGGC CACCCTGCTT TTGGGAGGG	
983, 549	AAAGCCACC CGTCCACAG GGAAGCAGAC AACTGAGTA CGAAGAAGCC	
983, 599	CTGAGGTGC CACCCAGGG CCGGCGCGG AGCAGGAGTC TGGAGGGCTC	
983, 649	CCTGGAGCG GTGGCTCTG CTGAGAGCCC GCAGGAGCC AGGCTTAGGG	
983, 699	ACAGCAGAG GGAGGAGGG CTGGCCTGT CGGCTGCCTG CTCAGCCCC	
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983, 799	TTTCTCATC TGTGAAATGG GAAGAGGACC TGTGCCTCCT GGCAGGGAT	
983, 849	GCTGAGGACA GAGGTACGG GGACACGGCA CGGGCAGC <b>ttctc</b>	Rp2
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983, 949	cagtcaggcc cgggcccctgc ctccggctgc ccCaaactgc gggctgggg	
983, 999	GCTGTGGCC GGGCTGTAGC CGAAGACGGA TCAGGTCTC TGGGGCCGA	
984, 049	GCCTGTCAAG CCCTCACTCT GTGCAGACTC TGGCCTTCA GAATGTGCCA	
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984, 249 TCCACCCTGC **ACCACTGGCT** TTATGGGATC TAGGCGTGCC CCCTCCACCT Fp3  
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 985, 299 CCTCTGGGG TCCCCTGGCC TGCAGGTGAG GAGCTGCCTC CCATCCTTGG Intron 4  
 985, 349 GGTGGGTGG AGCCTGGAGT GATGGGCGT CAGCAGGAGG ACGGGGGCCC  
 985, 399 CAGTGTCTGC CCCTCTCAGC TTCTCGGCC TCC**CACTTG** **CAAAAGGAAT** Rp4  
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 986, 649 GGGCCCTGCT CCAGCTGCAC CGGCCCGTCC TGC GCAAGAT CGAGGAGGTC  
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 988, 399 CTTCTGCCT TTCTCTGCAG GTCAGACCC CTCGGGGCCG GGTGGGGCG Intron 8  
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 988, 499 CTGCACCCAC CTCCGATCT CAGGTCTGA AGCCGGCTGT GGTGGCTGCT Rp7, Rp8  
 988, 549 CCTGTGCTCC CCTGGGGAGG TCCCACCCC TCCCCTCCAG GAGCAGGCCT  
 988, 599 GGTGCAGCCC ACTCTGTGCC TGGACATCC CCGCAGGCCG CCGGTCTGT Exon 9  
 988, 649 GTTGGGAGC GCCTGGCCAG GACCGAGCTC TTCCTGCTGT TTGCCGGCCT  
 988, 699 CCTGCAGAGG TACCGCCTGC TGCCCCGCC TGGCGTCACT CCGGCTCCC

988, 749 TGGACACCAC GCCCGCCCGG GCTTTTACCA TGAGGCCGAG GGCCAGGCC  
 988, 799 CTGTGTGCGG TGCCAGGCC CTAGgagctc cccagcccc caggtcctcc  
 988, 849 tgaccactcc cctcccagcc ctgggtcctc ccacctctc tctcccacc  
 988, 899 ccacagctcG gactgctctg ggagggcctt gaggactccc acctcacc  
 988, 949 ccacccccac agggtcagca actg**ttccg gttaca cca ggactaccc** Rp8, Fp9  
 988, 999 **tgcccgacc** tgtgggacce ccacctctt gatgctgtct gcagctcagt  
 989, 049 ccctgccagc cccagggagc gcctccaggc cccgccccac tctcccacc  
 989, 099 ctgaagctgc actcccacc acctagctcc cccagggcc ccccagcacc  
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 989, 349 ctggggccat gcgtatgact ggtgcaggga ggcaaggccc acattctct  
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 989, 742 tgcactccag cctgggtgac agagcgagat tccatctca **acaacagaa** Rp9  
 989, 792 **ggaaaatgctg** agccacacag tggcacatgt gctggggcgg gtgtggtcgg  
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 990, 392 gtgatgggac acctgctgtc tgagacggcc ctggcccccg tcccagcgt  
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 990, 542 acgtggtggc cgggacacac ggggtgcacg caggcctcac actcccaggt  
 990, 592 ggggcccagc ggtccctaag tcatgggtgg ggctgctgct acgaggcgt

Supplemental Figure 1. The location of amplification primers in *CYP2W1* gene sequence

(reference sequence: NC\_000007.14), which was highlighted in different colors.

Supplemental Table 1 Primers for CYP2W1 amplification and sequencing.

Region Amplified	Primer name	Sequence(5' -3')	Product size(bp)
promoter	Fp1	CTTCCCTCCCAGCTAATCAAG	862
	Rp1	GAGAATGTGGAACGAGCAGTTT	
Exon1	Fp2	AAACTGCTCGTTCCACATTCTC	828
	Rp2	GCGACAGTGCTAGTCAGGCTG	
Exon2	Fp3	ACCACTGGCTTTATGGCATCTA	698
	Rp3	AAGATGCCTGTAGGCAGATACAGT	
Exon3&4	Fp4	GTTCTTTTCATCCCAAGTCAAGAG	684
	Rp4	CATCTGATTCCTTTTGCAAGGT	
Exon5	Fp5	CAGCTCCTTACCACAGAGACG	842
	Rp5	GACAAGGAGACTGAGGCTCTGA	
Exon6&7	Fp6	AGACCTCCTTGAAGGCCTGTAG	864
	Rp6	CTGGCTGGACGCCCTTTATT	
Exon8	Fp7	CATCCTGGGTGTCCTCTCTATC	462
	Rp7	AGAACCTGAGATCAGGAGGTG	
Exon9	Fp8	CTCCTGATCTCAGGTTCTGAAGG	492
	Rp8	CAGGGGTAGTCCTGGGTGTA	
3'UTR	Fp9	CTCCGGTTACACCCAGGACTAC	830
	Rp9	TCGACATTCCTTCTGTTTGTTT	

Fp, forward primer; R, reverse primer

Supplemental Table 2 Frequency of identified CYP2W1 nsSNPs in different populations.

CYP2W1 allele	A181T(*2)	G376S	V432I(*4)	P488L(*6)
Han Chinese <sup>a</sup>	0.02	0	0.05	0.25
Tibetan <sup>a</sup>	0.01	0	0.02	0.33
Uighur <sup>a</sup>	0.07	0.01	0.02	0.14
Han Chinese <sup>b</sup>	0.029	0	0.043	0.28
Uighur <sup>b</sup>	0.052	0	0.009	0.173
CHB <sup>c</sup>	0.034	0	0.0437	0.2621
CHS <sup>c</sup>	0.0286	0	0.0476	0.2667
JPT <sup>c</sup>	0.0144	0.0045	0.0288	0.3894
Caucasian (CEU) <sup>c</sup>	0.045	0	0	0.1667
African(YRI) <sup>c</sup>	0.0833	0	0	0.0648
African-American(ASW) <sup>c</sup>	0.0656	0	0	0.1393

<sup>a</sup>, data are from the present study; <sup>b</sup>, data are cited from Qi et al., 2015; <sup>c</sup>, data are collected from 1000 genomes (<http://browser.1000genomes.org/index.html>)

CHB, Han Chinese in Beijing, n=206; CHS, Southern Han Chinese, n=216; JPT, Japanese in Tokyo, Japan, n=208; CEU, Utah residents with Northern and Western European, n=198; YRI, Yoruba in Ibadan, Nigeria, n=218; ASW, Americans of African ancestry in SW, USA, n=132.



Supplemental Table 3 Genotype distribution and comparison of identified variants in CYP2W1 in three populations.

SNP ID	Allele A	Allele B	Han			Tibetan			Uighur			H-Wpval			Fisher's Exact test, <i>P</i>		
			AA count	AB count	BB count	AA count	AB count	BB count	AA count	AB count	BB count	Han	Tibetan	Uighur	Han vs Tibetan	Tibetan vs Uighur	Han vs Uighur
v01	C	A	50	0	0	50	0	0	49	1	0	1	1	1	1	1	1
v02	G	A	50	0	0	50	0	0	49	1	0	1	1	1	1	1	1
v03	T	C	4	27	19	7	34	9	15	23	11	0.346	0.026	0.865	0.078	0.074	<b>0.012</b>
v04	G	A	47	3	0	41	8	1	34	14	1	1	0.785	1	0.121	0.243	<b>0.002</b>
v05	G	A	17	25	8	30	19	1	22	23	4	1	0.622	0.858	<b>0.007</b>	0.184	0.371
v06	A	G	48	2	0	47	3	0	50	0	0	1	1	1	1	0.242	0.495
v07	T	C	48	2	0	47	3	0	42	6	1	1	1	0.533	1	0.235	0.107
v08	G	T	13	29	8	29	16	1	23	23	4	0.385	0.916	0.909	<b>0.000</b>	0.177	0.09
v09	Ins	Del	17	25	8	29	16	2	23	23	4	1	1.000	0.909	<b>0.013</b>	0.33	0.327
v10	C	T	17	25	8	32	17	1	21	25	4	1	0.885	0.599	<b>0.003</b>	0.065	0.39
v11	G	A	48	2	0	48	1	0	44	5	1	1	1	0.403	1	0.157	0.269
v12	G	A	48	2	0	46	4	0	50	0	0	1	1	1	0.678	0.117	0.495
v13	A	G	8	25	17	1	19	30	3	21	26	1	0.622	0.996	<b>0.007</b>	0.572	0.116
v14	G	A	48	2	0	50	0	0	50	0	0	1	1	1	0.495	1	0.495
v15	C	G	50	0	0	48	2	0	50	0	0	1	1	1	0.495	0.495	1
v16	C	T	2	23	24	2	26	22	4	18	28	0.426	0.192	0.849	0.879	0.269	0.44
v17	T	C	48	2	0	47	3	0	50	0	0	1	1	1	1	0.242	0.495
v18	G	A	48	2	0	47	3	0	48	2	0	1	1	1	1	1	1
v19	C	T	50	0	0	50	0	0	49	1	0	1	1	1	1	1	1
v20	G	A	50	0	0	50	0	0	49	1	0	1	1	1	1	1	1
v21	C	T	49	1	0	50	0	0	50	0	0	1	1	1	1	1	1
v22	C	T	50	0	0	49	1	0	50	0	0	1	1	1	1	1	1
v23	G	A	45	5	0	48	2	0	48	2	0	1	1	1	0.436	1	0.436
v24	C	T	28	19	3	21	25	4	36	14	0	1	0.599	0.696	0.365	<b>0.003</b>	0.092
v25	G	A	49	0	0	50	0	0	49	1	0	1	1	1	1	1	1
v26	A	C	44	5	0	40	9	1	32	17	1	1	0.920	0.885	0.323	0.14	<b>0.005</b>

H-Wpval, Hardy–Weinberg equilibrium p-value