

### CYP2C9 and VKORC1<sup>1</sup>

CYP2C9			VKORC1				Material Source				Characterization Method	
Genotype <sup>2</sup>	Allele 1	Allele 2	Genotype <sup>3</sup>	Haplotype <sup>4</sup>	Allele 1	Allele 2	Cell Bank	Human Variation Panel	Cell Line Number	DNA Number	CYP2C9 <sup>5</sup> (# labs)	VKORC1 <sup>6</sup> (# labs)
nmd <sup>7</sup>			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17201</a>	<a href="#">NA17201</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17202</a>	<a href="#">NA17202</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17203</a>	<a href="#">NA17203</a>	Tag-It (2)	sequence (2)
*3/-	1075A>C		AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	<a href="#">GM17204</a>	<a href="#">NA17204</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17205</a>	<a href="#">NA17205</a>	Tag-It (2)	sequence (2)
*3/-	430C>T		GG	BB			Coriell	HD100CAU	<a href="#">GM17206</a>	<a href="#">NA17206</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17207</a>	<a href="#">NA17207</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17208</a>	<a href="#">NA17208</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	<a href="#">GM17209</a>	<a href="#">NA17209</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	<a href="#">GM17210</a>	<a href="#">NA17210</a>	Tag-It (2)	sequence (2)
*3/-	1075A>C		GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17211</a>	<a href="#">NA17211</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	<a href="#">GM17212</a>	<a href="#">NA17212</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17213</a>	<a href="#">NA17213</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17214</a>	<a href="#">NA17214</a>	Tag-It (2)	sequence (2)
*3/-	1075A>C		GG	BB			Coriell	HD100CAU	<a href="#">GM17215</a>	<a href="#">NA17215</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	<a href="#">GM17216</a>	<a href="#">NA17216</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17217</a>	<a href="#">NA17217</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17218</a>	<a href="#">NA17218</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17219</a>	<a href="#">NA17219</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17220</a>	<a href="#">NA17220</a>	Tag-It (2)	sequence (2)
*2/*3	430C>T	1075A>C	GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17221</a>	<a href="#">NA17221</a>	Tag-It (2)	sequence (2)
*2/*2	430C>T	430C>T	GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17222</a>	<a href="#">NA17222</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17223</a>	<a href="#">NA17223</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17224</a>	<a href="#">NA17224</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17225</a>	<a href="#">NA17225</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17226</a>	<a href="#">NA17226</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17227</a>	<a href="#">NA17227</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	<a href="#">GM17228</a>	<a href="#">NA17228</a>	Tag-It (2)	sequence (2)
nmd			AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	<a href="#">GM17229</a>	<a href="#">NA17229</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17230</a>	<a href="#">NA17230</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	<a href="#">GM17231</a>	<a href="#">NA17231</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17232</a>	<a href="#">NA17232</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17233</a>	<a href="#">NA17233</a>	Tag-It (2)	sequence (2)
*3/-	1075A>C		GG	BB			Coriell	HD100CAU	<a href="#">GM17234</a>	<a href="#">NA17234</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17235</a>	<a href="#">NA17235</a>	Tag-It (2)	sequence (1)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17236</a>	<a href="#">NA17236</a>	Tag-It (2)	sequence (2)

CYP2C9			VKORC1				Material Source				Characterization Method	
Genotype <sup>2</sup>	Allele 1	Allele 2	Genotype <sup>3</sup>	Haplotype <sup>4</sup>	Allele 1	Allele 2	Cell Bank	Human Variation Panel	Cell Line Number	DNA Number	CYP2C9 <sup>5</sup> (# labs)	VKORC1 <sup>6</sup> (# labs)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	GM17238	NA17238	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	GM17239	NA17239	Tag-It (2)	sequence (2)
nmd			AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	GM17240	NA17240	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	GM17241	NA17241	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17242	NA17242	Tag-It (2)	sequence (2)
*2/-	430C>T		AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	GM17243	NA17243	Tag-It (2)	sequence (2)
nmd			AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	GM17244	NA17244	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	GM17245	NA17245	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	GM17246	NA17246	Tag-It (2)	sequence (1)
*3/*3	1075A>C	1075A>C	GA	BA		-1639G>A	Coriell	HD100CAU	GM17247	NA17247	Tag-It (2)	sequence (2)
nmd			AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	GM17248	NA17248	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	GM17249	NA17249	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17250	NA17250	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	GM17251	NA17251	Tag-It (2)	sequence (2)
*2/*3	430C>T	1075A>C	GA	BA		-1639G>A	Coriell	HD100CAU	GM17252	NA17252	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	GM17253	NA17253	Tag-It (2)	sequence (2)
*2/*3	430C>T	1075A>C	GG	BB			Coriell	HD100CAU	GM17254	NA17254	Tag-It (1)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17255	NA17255	Tag-It (1)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17256	NA17256	Tag-It (1)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17257	NA17257	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	GM17258	NA17258	Tag-It (2)	sequence (2)
*3/-	1075A>C		GA	BA		-1639G>A	Coriell	HD100CAU	GM17259	NA17259	Tag-It (2)	sequence (2)
WT			GA	BA		-1639G>A	Coriell	HD100CAU	GM17260	NA17260	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	GM17261	NA17261	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	GM17262	NA17262	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17263	NA17263	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	GM17264	NA17264	Tag-It (2)	sequence (2)
nmd			AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	GM17265	NA17265	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	GM17266	NA17266	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17267	NA17267	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	GM17268	NA17268	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17269	NA17269	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17270	NA17270	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17271	NA17271	Tag-It (2)	sequence (2)
nmd			AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	GM17272	NA17272	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	GM17273	NA17273	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	GM17274	NA17274	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	GM17275	NA17275	Tag-It (2)	sequence (2)

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Genotype <sup>2</sup>	Allele 1	Allele 2	Genotype <sup>3</sup>	Haplotype <sup>4</sup>	Allele 1	Allele 2	Cell Bank	Human Variation Panel	Cell Line Number	DNA Number	CYP2C9 <sup>5</sup> (# labs)	VKORC1 <sup>6</sup> (# labs)
nmd			AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	<a href="#">GM17277</a>	<a href="#">NA17277</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17278</a>	<a href="#">NA17278</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17279</a>	<a href="#">NA17279</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	<a href="#">GM17280</a>	<a href="#">NA17280</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17281</a>	<a href="#">NA17281</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17282</a>	<a href="#">NA17282</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	<a href="#">GM17283</a>	<a href="#">NA17283</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17284</a>	<a href="#">NA17284</a>	Tag-It (2)	sequence (2)
*2/*3	430C>T	1075A>C	AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	<a href="#">GM17285</a>	<a href="#">NA17285</a>	Tag-It (2)	sequence (1)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17286</a>	<a href="#">NA17286</a>	Tag-It (2)	sequence (2)
nmd			GG	BB			Coriell	HD100CAU	<a href="#">GM17287</a>	<a href="#">NA17287</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17288</a>	<a href="#">NA17288</a>	Tag-It (2)	sequence (2)
nmd			AA	AA	-1639G>A	-1639G>A	Coriell	HD100CAU	<a href="#">GM17289</a>	<a href="#">NA17289</a>	Tag-It (2)	sequence (2)
*3/-	1075A>C		GG	BB			Coriell	HD100CAU	<a href="#">GM17290</a>	<a href="#">NA17290</a>	Tag-It (2)	sequence (2)
*3/-	1075A>C		GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17291</a>	<a href="#">NA17291</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17292</a>	<a href="#">NA17292</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17293</a>	<a href="#">NA17293</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GG	BB			Coriell	HD100CAU	<a href="#">GM17294</a>	<a href="#">NA17294</a>	Tag-It (2)	sequence (2)
*2/-	430C>T		GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17295</a>	<a href="#">NA17295</a>	Tag-It (2)	sequence (2)
nmd			GA	BA		-1639G>A	Coriell	HD100CAU	<a href="#">GM17296</a>	<a href="#">NA17296</a>	Tag-It (2)	sequence (1)

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<sup>1</sup> Information provided with permission from ARUP laboratories; TM Biosciences; Institute of Biomedical Sciences, Academia Sinica, Taiwan; Dept. of Genome Sciences, University of Washington, Seattle, WA

<sup>2</sup> All variants comprising the haplotype have not been determined. Allelic haplotypes are inferred by signature mutations.

<sup>3</sup> G = -1639G; A = -1639G>A, rs1787836

<sup>4</sup> Haplotype A (H1, H2) defined by -1639 A allele and Haplotype B (H7, H8, H9) defined by -1639 G allele as reported by Reider et al. 2005 NEJM 352:2285-

<sup>5</sup> Tag-It = TM Bioscience P450-2C9 Mutation Detection Product. Data provided with permission from ARUP laboratories and TM Biosciences

<sup>6</sup> Yuan H-Y et al. 2005 Human Molecular Genetics 14:1745, Rieder et al. 2005 New England Journal of Medicine 352:2287.

<sup>7</sup> nmd = no mutation detected