

CYP2C19

CYP2C19			Material Source				Characterization	
Genotype ²	Allele		Cell Bank	Human	Cell Line Number	DNA Number	DNA sequence	Other methods ³ (# labs)
	Allele 1	Allele 2		Variation Panel				
*1/*2		681G>A	Coriell		GM12273	NA12273	1 lab	AmpliChip (1)
*1/*1			Coriell		GM12244	NA12244	1 lab	AmpliChip (1)
*1/*1			Coriell		GM12003	NA12003	1 lab	AmpliChip (1)
*1/*1			Coriell		GM10841	NA10841	1 lab	AmpliChip (1)
*1/*2		681G>A	Coriell		GM10666	NA10666	1 lab	AmpliChip (1)
*1/*1			Coriell		GM10181	NA10181	1 lab	AmpliChip (1)
*1/*1			Coriell		GM10005	NA10005	1 lab	AmpliChip (2)
*1/*1			Coriell		GM09912	NA09912	1 lab	AmpliChip (2)
*1/*1			Coriell		GM09547	NA09547	1 lab	AmpliChip (1)
*1/*3		636G>A	Coriell		GM09404		1 lab	AmpliChip (2)
*1/*1			Coriell		GM09301	NA09301	1 lab	AmpliChip (2)
*1/*1			Coriell		GM08873	NA08873	1 lab	AmpliChip (1)
*2/*10	681G>A		Coriell		GM07439	NA07439	1 lab	AmpliChip (2)
*1/*2		681G>A	Coriell		GM02016	NA02016	1 lab	AmpliChip (2)
*1/*1			Coriell		GM01251	NA01251	1 lab	AmpliChip (1)
*1/*2		681G>A	ATCC		70E		1 lab	AmpliChip (1)
*2/-	681G>A		Coriell	HD100CAU	GM17201	NA17201		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17202	NA17202		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17203	NA17203		Tag-It (2)
nmd ⁴			Coriell	HD100CAU	GM17204	NA17204		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17205	NA17205		Tag-It (2)
nmd			Coriell	HD100CAU	GM17206	NA17206		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17207	NA17207		Tag-It (2)
nmd			Coriell	HD100CAU	GM17208	NA17208		Tag-It (2)
nmd			Coriell	HD100CAU	GM17209	NA17209		Tag-It (2)
nmd			Coriell	HD100CAU	GM17210	NA17210		Tag-It (2)
nmd			Coriell	HD100CAU	GM17211	NA17211		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17212	NA17212		Tag-It (2)
nmd			Coriell	HD100CAU	GM17213	NA17213		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17214	NA17214		Tag-It (2)
nmd			Coriell	HD100CAU	GM17215	NA17215		Tag-It (2)
nmd			Coriell	HD100CAU	GM17216	NA17216		Tag-It (2)
nmd			Coriell	HD100CAU	GM17217	NA17217		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17218	NA17218		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17219	NA17219		Tag-It (2)
nmd			Coriell	HD100CAU	GM17220	NA17220		Tag-It (2)
nmd			Coriell	HD100CAU	GM17221	NA17221		Tag-It (2)
nmd			Coriell	HD100CAU	GM17222	NA17222		Tag-It (2)
nmd			Coriell	HD100CAU	GM17223	NA17223		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17224	NA17224		Tag-It (2)
nmd			Coriell	HD100CAU	GM17225	NA17225		Tag-It (2)
nmd			Coriell	HD100CAU	GM17226	NA17226		Tag-It (2)
nmd			Coriell	HD100CAU	GM17227	NA17227		Tag-It (2)
nmd			Coriell	HD100CAU	GM17228	NA17228		Tag-It (2)
nmd			Coriell	HD100CAU	GM17229	NA17229		Tag-It (2)
nmd			Coriell	HD100CAU	GM17230	NA17230		Tag-It (2)
nmd			Coriell	HD100CAU	GM17231	NA17231		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17232	NA17232		Tag-It (2)
nmd			Coriell	HD100CAU	GM17233	NA17233		Tag-It (2)
nmd			Coriell	HD100CAU	GM17234	NA17234		Tag-It (2)
nmd			Coriell	HD100CAU	GM17235	NA17235		Tag-It (2)
nmd			Coriell	HD100CAU	GM17236	NA17236		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17237	NA17237		Tag-It (2)
nmd			Coriell	HD100CAU	GM17238	NA17238		Tag-It (2)
nmd			Coriell	HD100CAU	GM17239	NA17239		Tag-It (2)
nmd			Coriell	HD100CAU	GM17240	NA17240		Tag-It (2)
nmd			Coriell	HD100CAU	GM17241	NA17241		Tag-It (2)
nmd			Coriell	HD100CAU	GM17242	NA17242		Tag-It (2)
nmd			Coriell	HD100CAU	GM17243	NA17243		Tag-It (2)
nmd			Coriell	HD100CAU	GM17244	NA17244		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17245	NA17245		Tag-It (2)
*8/-	358T>C		Coriell	HD100CAU	GM17246	NA17246		Tag-It (2)
nmd			Coriell	HD100CAU	GM17247	NA17247		Tag-It (2)
nmd			Coriell	HD100CAU	GM17248	NA17248		Tag-It (2)

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Genotype ²	Allele 1	Allele 2	Cell Bank	Human Variation Panel	Cell Line Number	DNA Number	DNA sequence	Other methods ³ (# labs)
nmd			Coriell	HD100CAU	GM17250	NA17250		Tag-It (2)
nmd			Coriell	HD100CAU	GM17251	NA17251		Tag-It (2)
nmd			Coriell	HD100CAU	GM17252	NA17252		Tag-It (2)
nmd			Coriell	HD100CAU	GM17253	NA17253		Tag-It (2)
nmd			Coriell	HD100CAU	GM17254	NA17254		Tag-It (1)
nmd			Coriell	HD100CAU	GM17255	NA17255		Tag-It (1)
nmd			Coriell	HD100CAU	GM17256	NA17256		Tag-It (1)
nmd			Coriell	HD100CAU	GM17257	NA17257		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17258	NA17258		Tag-It (2)
nmd			Coriell	HD100CAU	GM17259	NA17259		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17260	NA17260		Tag-It (2)
nmd			Coriell	HD100CAU	GM17261	NA17261		Tag-It (2)
nmd			Coriell	HD100CAU	GM17262	NA17262		Tag-It (2)
*2/*2	681G>A	681G>A	Coriell	HD100CAU	GM17263	NA17263		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17264	NA17264		Tag-It (2)
nmd			Coriell	HD100CAU	GM17265	NA17265		Tag-It (2)
nmd			Coriell	HD100CAU	GM17266	NA17266		Tag-It (2)
nmd			Coriell	HD100CAU	GM17267	NA17267		Tag-It (2)
nmd			Coriell	HD100CAU	GM17268	NA17268		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17269	NA17269		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17270	NA17270		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17271	NA17271		Tag-It (2)
nmd			Coriell	HD100CAU	GM17272	NA17272		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17273	NA17273		Tag-It (2)
nmd			Coriell	HD100CAU	GM17274	NA17274		Tag-It (2)
nmd			Coriell	HD100CAU	GM17275	NA17275		Tag-It (2)
nmd			Coriell	HD100CAU	GM17276	NA17276		Tag-It (2)
nmd			Coriell	HD100CAU	GM17277	NA17277		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17278	NA17278		Tag-It (2)
nmd			Coriell	HD100CAU	GM17279	NA17279		Tag-It (2)
*8/-	358T>C		Coriell	HD100CAU	GM17280	NA17280		Tag-It (2)
nmd			Coriell	HD100CAU	GM17281	NA17281		Tag-It (2)
nmd			Coriell	HD100CAU	GM17282	NA17282		Tag-It (2)
nmd			Coriell	HD100CAU	GM17283	NA17283		Tag-It (2)
nmd			Coriell	HD100CAU	GM17284	NA17284		Tag-It (2)
nmd			Coriell	HD100CAU	GM17285	NA17285		Tag-It (2)
nmd			Coriell	HD100CAU	GM17286	NA17286		Tag-It (2)
nmd			Coriell	HD100CAU	GM17287	NA17287		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17288	NA17288		Tag-It (2)
*2/*2	681G>A	681G>A	Coriell	HD100CAU	GM17289	NA17289		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17290	NA17290		Tag-It (2)
nmd			Coriell	HD100CAU	GM17291	NA17291		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17292	NA17292		Tag-It (2)
nmd			Coriell	HD100CAU	GM17293	NA17293		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17294	NA17294		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17295	NA17295		Tag-It (2)
nmd			Coriell	HD100CAU	GM17296	NA17296		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17297	NA17297		Tag-It (2)
nmd			Coriell	HD100CAU	GM17298	NA17298		Tag-It (2)
*2/-	681G>A		Coriell	HD100CAU	GM17299	NA17299		Tag-It (2)
nmd			Coriell	HD100CAU	GM17300	NA17300		Tag-It (2)
*2/*2	681G>A	681G>A	Coriell	HD07	GM17051	NA17051		Tag-It (1)
*3/-	636G>A		Coriell	HD07	GM17052	NA17052		Tag-It (1)
nmd			Coriell	HD07	GM17053	NA17053		Tag-It (1)
nmd			Coriell	HD07	GM17054	NA17054		Tag-It (1)
*2/-	681G>A		Coriell	HD07	GM17055	NA17055		Tag-It (1)
nmd			Coriell	HD07	GM17056	NA17056		Tag-It (1)
nmd			Coriell	HD07	GM17057	NA17057		Tag-It (1)
*2/-	681G>A		Coriell	HD07	GM17058	NA17058		Tag-It (1)
*2/*2	681G>A	681G>A	Coriell	HD07	GM17059	NA17059		Tag-It (1)
*3/-	636G>A		Coriell	HD07	GM17060	NA17060		Tag-It (1)
*2/-	681G>A		Coriell	HD32	GM16654	NA16654		Tag-It (1)
*2/*3	681G>A	636G>A	Coriell	HD32	GM16688	NA16688		Tag-It (1)
*2/*2	681G>A	681G>A	Coriell	HD32	GM16689	NA16689		Tag-It (1)
nmd			Coriell	HD32	GM17014	NA17014		Tag-It (1)

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Genotype ²	Allele 1	Allele 2	Cell Bank	Human Variation Panel	Cell Line Number	DNA Number	DNA sequence	Other methods ³ (# labs)
nmd			Coriell	HD32	GM17016	NA17016		Tag-It (1)
*2/*3	681G>A	636G>A	Coriell	HD32	GM17017	NA17017		Tag-It (1)
*2/-	681G>A		Coriell	HD32	GM17018	NA17018		Tag-It (1)
nmd			Coriell	HD32	GM17019	NA17019		Tag-It (1)
nmd			Coriell	HD32	GM17020	NA17020		Tag-It (1)
nmd			Coriell	HD04	GM17031	NA17031		Tag-It (1)
nmd			Coriell	HD04	GM17032	NA17032		Tag-It (1)
nmd			Coriell	HD04	GM17033	NA17033		Tag-It (1)
*2/-	681G>A		Coriell	HD04-	GM17034	NA17034		Tag-It (1)
nmd			Coriell	HD04	GM17035	NA17035		Tag-It (1)
*2/-	681G>A		Coriell	HD04	GM17036	NA17036		Tag-It (1)
nmd			Coriell	HD04	GM17037	NA17037		Tag-It (1)
*2/-	681G>A		Coriell	HD04	GM17038	NA17038		Tag-It (1)
nmd			Coriell	HD04	GM17039	NA17039		Tag-It (1)
nmd			Coriell	HD04	GM17040	NA17040		Tag-It (1)
nmd			Coriell	HD13	GM17081	NA17081		Tag-It (1)
nmd			Coriell	HD13	GM17082	NA17082		Tag-It (1)
*3/-	636G>A		Coriell	HD13	GM17083	NA17083		Tag-It (1)
*2/*4	681G>A	1A>G	Coriell	HD13	GM17084	NA17084		Tag-It (1)
nmd			Coriell	HD13	GM17085	NA17085		Tag-It (1)
*2/*2	681G>A	681G>A	Coriell	HD13	GM17086	NA17086		Tag-It (1)
nmd			Coriell	HD13	GM17087	NA17087		Tag-It (1)
nmd			Coriell	HD13	GM17088	NA17088		Tag-It (1)
*2/-	681G>A		Coriell	HD13	GM17089	NA17089		Tag-It (1)
nmd			Coriell	HD13	GM17090	NA17090		Tag-It (1)
nmd			Coriell	HD27	GM17331	NA17331		Tag-It (1)
*2/-	681G>A		Coriell	HD27	GM17332	NA17332		Tag-It (1)
nmd			Coriell	HD27	GM17333	NA17333		Tag-It (1)
*2/-	681G>A		Coriell	HD27	GM17334	NA17334		Tag-It (1)
nmd			Coriell	HD27	GM17335	NA17335		Tag-It (1)
nmd			Coriell	HD27	GM17336	NA17336		Tag-It (1)
*2/-	681G>A		Coriell	HD27	GM17337	NA17337		Tag-It (1)
nmd			Coriell	HD27	GM17338	NA17338		Tag-It (1)
nmd			Coriell	HD27	GM17339	NA17339		Tag-It (1)
*2/-	681G>A		Coriell	HD27	GM17340	NA17340		Tag-It (1)
*1/*1 ⁽⁶⁾			ParagonDx			002-000101	1 lab	Gel-based RFLP (1), Sequencing(1)
*1/*2 ⁽⁶⁾		19154 G>A (681G>A) ⁵	ParagonDx			002-000102	1 lab	Gel-based RFLP (1), Sequencing(1)
*1/*3 ⁽⁶⁾		17948 G>A (636G>A) ⁵	ParagonDx			002-000103	1 lab	Gel-based RFLP (1), Sequencing(1)

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¹ Information provided with permission from ARUP laboratories, Roche Molecular Systems or TM Biosciences

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

³ AmpliChip = Roche Amplichip P450 Test, Tag-It = TM Bioscience P450-2C19 Mutation Detection Product

⁴ nmd = no mutation detected

⁵ Genotype nomenclature listed by genomic position ("A" of the translational start codon based on NT030059) with cDNA position in parentheses.

⁶ *1 allele lacks polymorphic sites characteristic of CYP2C19 *2, *3, *4, *5 and *10.