



Variant List – VeriDose® Core Panel

Gene*	Current Nucleotide Change	Legacy Nucleotide Change	Amino Acid Change / Star Allele	dbSNP RS#
ABCB1 (NG_011513.1)	208920T>C	c.3435C>T	p.I1145=	rs1045642
APOE (NG_007084.2)	7903T>C	c.388T>C	p.C130R	rs429358
	8041C>T	c.526C>T	p.R176C	rs7412
COMT (NG_011526.1; LRG_1010)	27009G>A	c.472G>A	p.V158M	rs4680
CYP1A2 (NG_061543.1; LRG_1274)	2035>A	g.-3860G>A	*1C	rs2069514
	5732>A	g.-163C>A	*1F	rs762551
	5166C>T	g.-729C>T	*1K	rs12720461
	9427G>A	g.3533G>A	*7	rs56107638
CYP2B6 (NG_007929.1; LRG_1267)	6452C>A	g.558C>A	*11	rs72547513
	15631>A	c.516G>A	*6	rs3745274
CYP2C9 (NG_007929.1; LRG_1267)	21011T>C	c.983T>C	*18	rs28399499
	19154G>A	c.681G>A	*2	rs4244285
CYP2C19 (NG_008384.3; LRG_584)	17948G>A	c.636G>A	*3	rs4986893
	1A>G	c.1A>G	*4	rs28399504
	90033C>T	c.1297C>T	*5	rs56337013
	12748G>A	c.395G>A	*6	rs72552267
	19294T>A	g.19294T>A	*7	rs72558186
	12711T>C	c.358T>C	*8	rs41291556
	-806C>T	g.-806C>T	*17	rs12248560
CYP2C9 (NG_008385.2; LRG_1195)	3608C>T	c.430C>T	*2	rs1799853
	42614A>C	c.1075A>C	*3	rs1057910
	42615T>C	c.1076T>C	*4	rs56165452
	42619C>G	c.1080C>G	*5	rs28371686
	10601delA	c.818delA	*6	rs9332131
	3627G>A	c.449G>A	*8	rs7900194
	42542C>T	c.1003C>T	*11	rs28371685
	50338C>T	c.1465C>T	*12	rs9332239
	3276T>C	c.269T>C	*13	rs72558187
9100C>A	c.485C>A	*15	rs72558190	
9056_9065del	c.353_362del	*25	rs1304490498	
CYP2D6 (NG_008376.4; LRG_303)	2851C>T	g.2850C>T	*2, multiple	rs16947
	4181G>C	g.4180G>C	*2, multiple	rs1135840
	2550delA	g.2549delA	*3	rs35742686
	1847G>A	g.1846G>A	*4	rs3892097
	1708delT	g.1707delT	*6	rs5030655
2936A>C	g.2935A>C	*7	rs5030867	

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CYP2D6 (NG_008376.4; LRG_303)	1759G>T	g.1758G>T	*8	rs5030865
	2616delAAG	g.2613_2615delAGA (g.2615_2617delAAG)	*9	rs5030656
	100C>T	g.100C>T	*10, multiple	rs1065852
	882G>C	c.883G>C	*11	rs201377835
	124G>A	g.124G>A	*12	rs5030862
	1759G>A	g.1758G>A	*14	rs5030865
	137-138insT	g.137-138insT	*15	rs72549357
	1022C>T	g.1023C>T	*17	rs28371706
	4135_4136insTGCCCACTG	c.dup4125-4133	*18	dup4125_4133/ rs765776661
	2540delAACT	c.2539_2542delAACT	*19	rs72549353
	1977_1978insG	c.1973_1974insG	*20	rs72549354
	3184G>A	g.3183G>A	*29	rs59421388
	2989G>A	g.2988G>A	*41	rs28371725
	deletion (*5) and duplication (xN) (in non-hybrid samples)	In hybrid-allele containing samples might overestimate or underestimate copy number. For detailed copy number analysis, we recommend running VeriDose CYP2D6 CNV assay in addition to the VeriDose Core panel.		
CYP3A4 (NG_008421.1)	15722T>C	c.664T>C	*2	rs55785340
	15624T>C	c.566 T>C	*17	rs4987161
	15389C>T	g.15389C>T	*22	rs35599367
CYP3A5 (NG_007938.2; LRG_1431)	27284C>A	g.27289C>A	*3.010	rs28365083
	6981A>G	g.6986A>G	*3	rs776746
	14685G>A	c.624G>A	*6	rs10264272
	27126_27127insT	g.27131_27132insT	*7	rs41303343
DRD2 (NG_012976.1)	17316G>A	c.2137G>A	p.E713K / Taq1A	rs1800497
F2 (NG_008953.1; LRG_551)	25313G>A	c.*97G>A	p.G20210A	rs1799963
F5 (NG_011806.1; LRG_553)	41721G>A	c.1601G>A	p.R506Q	rs6025
GLP1R	c.780A>C/T		p.L260F	rs1042044
	c.502G>A/C		p.G168R/G168S	rs6923761
	c.510-1135T>G			rs2300615
MTHFR (NG_013351.1; LRG_726)	14783C>T	c.665C>T	p.A222V	rs1801133
	16685A>C	c.1286A>C	p.E429A	rs1801131
OPRM1 (NG_021208.2; LRG_1007)	34162A>G	c.118A>G	p.A118G	rs1799971
PNPLA5	c.608-169G>A			rs5764010

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SLCO1B1 (NG_011745.1; LRG_1022)	52422T>C	c.521T>C	p.V174A	rs4149056
SULT4A1	c.743-374A>G			rs763120
VKORC1 (NG_011564.1; LRG_582)	3588G>A	c.-1639G>A	1639 G>A	rs9923231

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Additionally, the Agena VeriDose® Core Panel will be combined with copy number variation (CNV) analysis via long-range polymerase chain reaction (PCR) to detect *CYP2D6* duplications and deletions.

For Research Use Only. Not for use in diagnostic procedures.

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Agena Bioscience, Inc.
4755 Eastgate Mall
San Diego, CA 92121
Phone: +1.877.443.6663

Order Desk: +1.858.202.9301
Order Desk Fax: +1.858.202.9220
orderdesk@agenabio.com
Website: www.agenabio.com

Online Support:
<https://support.agenabio.com>

