

BD Gentest™ Allelic Variant Single Donor Human Liver Microsome (HLM) Panel

| Lot No. (Donor No.) | Gender / Age / Race ¹ | Cause of Death | Smoker (Amount/Duration) | Medical History | Total P450 | CYP1A2 | CYP2A6 | CYP2B6 | CYP2C8 | CYP2C9 | CYP2C19 | CYP2D6 | CYP2E1 | CYP3A4 | CYP4A | FMO | UGT1A1 | UGT1A4 | UGT1A9 | CYP3A5 | CYP3A4 |
|---|-------------------------------------|--------------------------------|----------------------------------|---|---------------------------|----------------------------|---------------------------|----------------------------------|--|------------------------------|-----------------------------------|-----------------------------|--------------------------------|--|-------------------------------|-----------------------------------|--------------------------------|--------------------------------------|-----------------------------|--------------|--------------|
| | | | | | Omura and Sato pmol/mg | Phenacetin O-deethylase | Coumarin 7-hydroxylase | (S)-Mephenytoin N-demethylase | Paclitaxel 6- α -hydroxylase | Diclofenac 4'-hydroxylase | (S)-Mephenytoin 4'-hydroxylase | Bufuralol 1'-hydroxylase | Chlorzoxazone 6-hydroxylase | Testosterone 6 β -hydroxylase | Lauric acid 12-hydroxylase | Methyl p-Tolyl Sulfide Oxidase | Estradiol 3-Glucuronidation | Trifluoroperazine Glucuronidation | Propofol Glucuronidation | Western blot | Western blot |
| HLM 2C8(*3*3) Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452144 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH809 | F / 79 / C | Stroke | N/A | Malignant tumors on both kidneys, HTN recently diagnosed, medications unknown | 340 | 1020 | 1400 | 27 | 100 | 2500 | 220 | 68 | 1400 | 5800 | 2600 | 4400 | 770 | 650 | 2900 | — | — |
| HH632 | M / 37 / C | Closed head injury | Yes 1/2 - 1 ppd x20 yrs | Jaundice at birth, splenectomy, stiff joints from injury. Occasional hemorrhoids, OTC antacids. | 170 | 590 | 370 | 4.5 | 19 | 1200 | 4.9 | 76 | 2200 | 1200 | 1200 | 1900 | 270 | 520 | 2600 | — | — |
| HH611 | F / 44 / C | Stroke | No | Haltial hernia, reflux meds | 350 | 380 | 1400 | 71 | 270 | 3600 | 31 | 58 | 3400 | 15400 | 3100 | 2500 | 1500 | 740 | 4300 | — | — |
| HH69 | M / 60 / C | Head Trauma | N/A | NIDDM 5-10 yrs, Glucotrol | 220 | 480 | 560 | 8 | 55 | 1900 | 18 | 130 | 2400 | 1100 | 790 | 450 | 770 | 510 | 6000 | — | — |
| HLM 2C9(*2*3) Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452142 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH821 | F / 82 / C | CVA, ICH | No | Asthma, Type II Diabetes, IBS cholecystectomy, knee replacement, multilateral gastric surgeries HTN treated with meds | 380 | 790 | 850 | 10 | 68 | 1700 | 450 | 2.2 | 930 | 5400 | 2700 | 3920 | 1200 | 800 | 5300 | — | — |
| HH651 | M / 31 / C | Closed head injury | Chewing tobacco 1 can/day x9 yrs | Hand fracture, fertility tests, shoulder injury, allergic to Kefzol/Ancef and peas | 110 | 200 | 110 | 4.5 | 15 | 550 | 9.4 | 68 | 1450 | 720 | 470 | 710 | 140 | 290 | 1300 | — | — |
| HLM 2C9(*3*3) Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452142 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH519 | M / 70 / C | Brain stem infarct | No | Type II DM, Parkinsons, appendectomy, oral insulin | 450 | 370 | 460 | 51 | 140 | 720 | 8.4 | 82 | 2300 | 6400 | 1400 | 1700 | 970 | 550 | 1500 | — | — |
| HLM 2C9(*2*2) Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452142 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH809 | F / 79 / C | Stroke | Unknown | Malignant tumors on both kidneys, recent HTN | 340 | 1020 | 1400 | 27 | 100 | 2500 | 220 | 68 | 1400 | 5800 | 2600 | 4400 | 770 | 650 | 2900 | — | — |
| HH632 | M / 37 / C | Closed head injury | Yes 1/2 - 1 ppd x20 yrs | Jaundice at birth, splenectomy, stiff joints from injury. Occasional hemorrhoids, OTC antacids. | 170 | 590 | 370 | 4.5 | 19 | 1200 | 4.9 | 76 | 2200 | 1240 | 1200 | 1900 | 270 | 520 | 2600 | — | — |
| HH611 | F / 44 / C | Stroke | No | Haltial hernia, reflux meds | 350 | 380 | 1400 | 71 | 270 | 3600 | 31 | 58 | 3400 | 15400 | 3100 | 2500 | 1600 | 740 | 4300 | — | — |
| HH502 | M / 57 / C | Subarachnoid Hem- morage | Yes 2 ppd | HTN, Brights disease | 120 | 210 | 89 | 13 | 11 | 1600 | 16 | 50 | 2700 | 3300 | 950 | 700 | 640 | 470 | 1700 | — | — |
| HG103 | M / 65 / C | Closed head injury | N/A | Cardiomyopathy, Prilosec, Norpace, Procardia, Cordarone, Persantine, Cardizem, Lasix, Pepcid, ASA | 350 | 340 | 560 | 3.9 | 60 | 2200 | 21 | 100 | 1300 | 2800 | 1600 | 1000 | N/A | N/A | N/A | — | — |
| HLM 2C19(*2*2) PM Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452143 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH689 | M / 69 / C | Cardiac- pulmonary Accident | No | PCP, BPH 7 years prior | 200 | 120 | 290 | 20 | 89 | 2800 | 5.4 | 79 | 2500 | 2300 | 1600 | 1800 | 690 | 490 | 2500 | — | — |
| HH863 | F / 46 / C | Anoxia | Yes 4 ppd x20 yrs | Asthma, depression, Flovent | 390 | 520 | 1200 | 97 | 400 | 3700 | 18 | 140 | 3300 | 8700 | 2200 | 2000 | 1750 | 860 | 3100 | — | — |
| HH40 | M / 66 / A | ICH | N/A | HTN, Benadryl | 220 | 410 | 260 | 5.5 | 46 | 1700 | 1.6 | 25 | 2200 | 2400 | 860 | 1900 | 750 | 500 | 2400 | — | — |
| HLM 2D6(*4*4) PM Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452141 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH35 | F / 42 / C | Anoxia | N/A | Asthma, Accolate, Clariton, Paxil, Pirbuterol | 370 | 240 | 630 | 30 | 360 | 5600 | 11 | 0.4 | 2500 | 3500 | 1500 | 3700 | 800 | 610 | 4300 | — | — |
| HH61 | M / 34 / C | GSW | N/A | Cardiac arrhythmia, cardiac valvular insufficiency, Depicote, Percocet, Xanax | 90 | 31 | 3 | 10 | 32 | 1200 | 13 | 0.7 | 1900 | 3500 | 1400 | 410 | 990 | 580 | 3000 | — | — |
| HH31 | F / 51 / C | Stroke | N/A | High Blood Pressure, Isoptin, Xanax | 710 | 2900 | 2500 | 270 | 210 | 2800 | 60 | 4.1 | 2600 | 12000 | 1000 | 3800 | 2900 | 1100 | 4300 | — | — |
| HLM 3A5(*1*1) Allelic Variant with Western Blot Data | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452135 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH739 | F / 59 / AA | ICH | Yes x16 yrs Quit | Mild arthritis, ovary removed and small bowel resection, daily Coumadin, Inderal, HTZ | 210 | 250 | 600 | 19 | 110 | 2000 | 15 | 80 | 2100 | 1600 | 1300 | 2000 | 290 | 380 | 4000 | 6 | 11 |
| HH785 | M / 56 / AA | CVA, stroke | Yes Quit at ~35y.o. | Hemorrhoidectomy, sinus problems, recent HTN, Atenolol | 220 | 400 | 230 | 25 | 140 | 830 | 13.2 | 46 | 1400 | 5800 | 740 | 2900 | 1000 | 670 | 3700 | 13 | 170 |
| HH867 | M / 26 / AA | Head trauma, GSW | Yes 1/4 ppd | Normal | 440 | 1000 | 400 | 79 | 400 | 3100 | 43 | 74 | 3000 | 4100 | 2500 | 2100 | 1100 | 650 | 3200 | 17 | 110 |
| HH860 | F / 63 / AA | CVA, ICH | Yes 1/4 ppd Quit | Diabetes controlled with meds, HTN controlled with meds, ESRD | 500 | 960 | 840 | 68 | 190 | 2600 | 27 | 26 | 980 | 11500 | 2600 | 2500 | 1000 | 700 | 6700 | 35 | 320 |
| HH47 | F / 53 / AA | CVA | N/A | HTN, diabetes | 260 | 360 | 510 | 6.5 | 130 | 2900 | 4 | 130 | 3000 | 4100 | 900 | 2100 | 750 | 700 | 5000 | 9.3 | 62 |

| Lot No. (Donor No.) | Gender / Age / Race* | Cause of Death | Smoker (Amount/Duration) | Medical History | Total P450 | CYP1A2 | CYP2A6 | CYP2B6 | CYP2C8 | CYP2C9 | CYP2C19 | CYP2D6 | CYP2E1 | CYP3A4 | CYP4A | FMO | UGT1A1 | UGT1A4 | UGT1A9 | CYP3A5 | CYP3A4 |
|---|-------------------------|--------------------------------------|---------------------------------------|--|---------------------------|----------------------------|---------------------------|----------------------------------|---------------------------------------|------------------------------|-----------------------------------|-----------------------------|--------------------------------|--|-------------------------------|-----------------------------------|--------------------------------|--------------------------------------|-----------------------------|--------------|--------------|
| | | | | | Omura and Sato pmol/mg | Phenacetin O-deethylase | Coumarin 7-hydroxylase | (S)-Mephenytoin N-demethylase | Paclitaxel 6 α -hydroxylase | Diclofenac 4'-hydroxylase | (S)-Mephenytoin 4'-hydroxylase | Bufuralol 1'-hydroxylase | Chlorzoxazone 6-hydroxylase | Testosterone 6 β -hydroxylase | Lauric acid 12-hydroxylase | Methyl p-Tolyl Sulfide Oxidase | Estradiol 3-Glucuronidation | Trifluoroperazine Glucuronidation | Propofol Glucuronidation | Western blot | Western blot |
| Enzyme Activity is expressed in [pmol/(mg x min)] | | | | | | | | | | | | | | | | | | | | | |
| HLM 3A5(*1*3) Allelic Variant with Western Blot Data | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452136 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH757 | M / 57 / H | ICH | No | Syncope, CAD, cardiomyopathy, HTN 5+ years | 100 | 30 | 80 | 20 | 42 | 600 | 2.7 | 79 | 1700 | 1300 | 820 | 700 | 730 | 280 | 2300 | 9 | 19 |
| HH868 | M / 66 / A | CVA, ICH | No | Heart disease, HTN, heart valve replacement, kidney stones | 110 | 120 | 110 | 5.8 | 44 | 1900 | 8.8 | 15 | 1300 | 1600 | 760 | 860 | 170 | 260 | 2300 | 13 | 23 |
| HH54 | F / 62 / A | ICH | N/A | Normal | 300 | 320 | 520 | 26 | 160 | 2100 | 110 | 83 | 1400 | 4300 | 2100 | 1600 | 810 | 470 | 7200 | 8.6 | 87 |
| HLM 3A5(*3*3) Allelic Variant with Western Blot Data | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452137 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH189 | F / 54 / C | CVA | N/A | MVI and Calcium | 300 | 230 | 1200 | 48 | 210 | 4100 | 270 | 37 | 2500 | 13600 | 1800 | 2000 | 560 | 700 | 2400 | — | 120 |
| HH507 | M / 64 / H | Head trauma, GSW | Yes 2 ppd x50 yrs | Diabetes, back surgery, shoulder bursitis (received injections), chronic congestion 6 months prior, Xanax and antihistamines daily | 110 | 63 | 210 | 11 | 46 | 1100 | 10 | 52 | 770 | 400 | 230 | 480 | 200 | 180 | 1400 | — | 15 |
| HH558 | M / 28 / H | Closed head injury | 1/2 pack every other week | Tonsillectomy, foot surgery | 310 | 320 | 690 | 77 | 170 | 2600 | 24 | 77 | 3400 | 6800 | 1900 | 2200 | 770 | 620 | 3500 | — | 46 |
| UGT1A1(*28*28) Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452132 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH629 | M / 47 / C | Anoxia, cardiovascular s/p pneumonia | Yes 1 1/2 ppd x30 yrs | Diabetes x2 years, controlled with diet, ASA, Augmentin x1 week | 82 | 310 | 11 | 7 | 3 | 380 | 2.4 | 90 | 2400 | 33 | 1000 | 1500 | 490 | 300 | 650 | — | — |
| HH859 | F / 61 / C | CVA | Yes 1 ppd x40 yrs 5 cigars/day x2 yrs | Fibromyalgia, TIA & CVA, HTN x3 yrs., hernia repair, appendectomy | 300 | 740 | 2500 | 43 | 150 | 2500 | 64 | 0.3 | 1300 | 5500 | 1600 | 4500 | 200 | 690 | 2900 | — | — |
| HH792 | F / 51 / C | Anoxia | Yes 1 ppd x28 yrs | Back surgery 20 yrs prior | 190 | 1000 | 310 | 12 | 96 | 3100 | 85 | 81 | 2600 | 3200 | 2600 | 4400 | 300 | 660 | 2500 | — | — |
| HH645 | F / 36 / AA | Head Trauma, GSW | No | Broken leg, D&C 8 mos prior | 340 | 1000 | 840 | 20 | 230 | 3500 | 5 | 69 | 3600 | 3900 | 2600 | 3400 | 560 | 500 | 3800 | — | — |
| UGT1A1(*1*28) Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452133 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH854 | F / 61 / C | CVA, ICH | Yes x47 yrs | Benign meningioma, HTN treated with meds | 170 | 1100 | 630 | 28 | 110 | 2500 | 130 | 40 | 1300 | 3900 | 1700 | 2200 | 830 | 640 | 3600 | — | — |
| HH855 | M / 53 / C | Anoxia, cardiac arrest (DCD) | No | HTN, NIDDM both controlled with medication, CABG, stroke | 230 | 670 | 120 | 27 | 150 | 5800 | 95 | 190 | 3400 | 5200 | 3700 | 2100 | 1250 | 660 | 2500 | — | — |
| UGT1A1(*1*1) Allelic Variant | | | | | | | | | | | | | | | | | | | | | |
| Cat. No.: 452134 Package Content: 0.5 mL Protein Content: 20 mg/mL in 250 mM sucrose Storage: Store at -80°C | | | | | | | | | | | | | | | | | | | | | |
| HH524 | M / 51 / C | Subarachnoid hemorrhage | Unknown | History unknown, craniotomy on admission | 120 | 840 | 660 | 79 | 60 | 3200 | 17 | 110 | 2400 | 6800 | 1700 | 2200 | 2600 | 1000 | 4100 | — | — |
| HH650 | F / 58 / C | CVA, intracranial bleed s/p Aneurysm | Yes 1 ppd x45 yrs | HTN, high cholesterol, benign breast biopsies, peptic ulcer | 130 | 590 | 720 | 21 | 100 | 1400 | 15 | 100 | 1800 | 3900 | 1500 | 1700 | 850 | 380 | 4200 | — | — |
| HH746 | M / 65 / C | Head injury | Yes 2-3 ppd x37 yrs Quit x4 yrs | Hiatal hernia, spinal curvature since birth | 220 | 170 | 190 | 16 | 32 | 1700 | 6.1 | 99 | 3200 | 1200 | 1200 | 1100 | 1100 | 420 | 1800 | — | — |

CYP2C8

The CYP2C8(*3) mutation has both an Arg₁₃₉Lys and Lys₃₉₉Arg amino acid substitutions in exons 3 and 8. CYP2C8(*3) donors have reduced catalytic activity for certain substrates such as paclitaxel and arachadonic acid.

CYP2C9

CYP2C9(*1): Arg₁₄₄Ile₃₅₉; CYP2C9*2: Cys₁₄₄Ile₃₅₉; CYP2C9*3: Arg₁₄₄Leu₃₅₉; CYP2C9(*2) and (*3) mutants have reduced catalytic activity for certain substrates such as S-Warfarin relative to Wild-type CYP2C9(*1) (*1>*2>*3).

CYP2C9(*1), (*2) and (*3) have similar rates of catalysis for diclofenac 4'-hydroxylation.

CYP2D6

CYP2D6(*4): Splicing defect resulting in protein with no activity (PM phenotype).

CYP2C19

CYP2C19(*2) and (*3) nucleotide changes leads to a splicing defect and premature stop codon, respectively, and therefore to a protein with no activity (PM phenotype).

CYP3A5

HLM donors with (1*1) and (*1*3) genotypes have high CYP3A5 protein levels whereas (*3*3) have low CYP3A5 protein levels. The CYP3A5(*3) defective allele is caused by a single nucleotide polymorphism in intron 3 leading to the insertion of an intronic sequence containing premature termination codons, and hence the very low CYP3A5 protein expression in subjects with the (*3*3) genotype.

UGT1A1

UGT1A1(*28*28) is a functional UGT promoter polymorphism associated with Gilbert's disease (hyperbilirubinemia/jaundice). The mutation results in lowered UGT1A1 protein expression. Relative UGT1A1 protein expression levels resulting from the allele combinations are: (*1*1)>(*1*28)>(*28*28).

Note: Wild-type donors (*1*1) for the following CYPs are not included as part of the allelic variant panel: CYP2D6, 2C9, 2C19, and 2C8.

Donors with the highest activities for CYP2D6, CYP2C19 should be used as Wild-type 2D6 and 2C19 genotypes. HG64 and HH37 can be used as Wild-type controls for the CYP2D6 PM donors,

and HG43 can be used as the Wild-type controls for CYP2C19 PM donors, respectively.

Donor HH741 has the Wild-type gene for both CYP2C9 and CYP2C8 (2C9(*1*1) and CYP2C8(*1*1) and can be used as the control for the CYP2C8 and CYP2C9 mutant donors.

*PM: poor metabolizer

'C: Caucasian, H: Hispanic, A: Asian, AA: African American

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BD Gentest™ High/Low P450 Single Donor Human Liver Microsome (HLM) Panel

| Lot No. (Donor No.) | Gender / Age / Race* | Cause of Death | Smoker | Medical History | Total P450 | CYP1A2 | CYP2A6 | CYP2B6 | CYP2C8 | CYP2C9 | CYP2C19 | CYP2D6 | CYP2E1 | CYP4A | FMO | UGT1A1 | UGT1A4 | UGT1A9 | |
|-------------------------|----------------------|--------------------------|-----------------|--|--------------------------------|----------------------------|---------------------------|----------------------------------|---------------------------------------|--|-----------------------------------|-----------------------------|--------------------------------|-------------------------------|-----------------------------------|--------------------------------|--------------------------------------|-----------------------------|--|
| | | | | | Omura and Sato pmol/mg | Phenacetin O-deethylase | Coumarin 7-hydroxylase | (S)-Mephenytoin N-demethylase | Paclitaxel 6 α -hydroxylase | Diclofenac 4'-hydroxylase | (S)-Mephenytoin 4'-hydroxylase | Bufuralol 1'-hydroxylase | Chlorzoxazone 6-hydroxylase | Lauric acid 12-hydroxylase | Methyl p-Tolyl Sulfide Oxidase | Estradiol 3-Glucuronidation | Trifluoroperazine Glucuronidation | Propofol Glucuronidation | |
| Cat. No.: 452138 | | | | | Package Content: 0.5 mL | | | | | Protein Content: 20 mg/mL in 250 mM sucrose | | | | | Storage: Store at -80°C | | | | |
| HG43 | F / 23 / C | Open head trauma | N/A | N/A | 250 | 570 | 460 | 21 | 26 | 1200 | 450 | 7.3 | 960 | 2500 | 2300 | 520 | 520 | 1800 | |
| HH715 | M / 46 / C | Anoxia | No | Recent HTN, brain tumor, exp lap for small bowel obstruction | 96 | 570 | 400 | 15 | 100 | 3600 | 34 | 86 | 1700 | 2700 | 2800 | 840 | 570 | 3000 | |
| HH741 | M / 68 / C | Head trauma | No | Finger amputation >40 years prior | 360 | 240 | 1500 | 58 | 140 | 5500 | 18 | 73 | 2900 | 1800 | 2300 | 1400 | 500 | 2700 | |
| HH837 | F / 52 / H | CVA | No | HTN 1 yr, medications unknown | 400 | 880 | 1900 | 110 | 310 | 3900 | 100 | 91 | 1700 | 2100 | 2000 | 64 | 960 | 3400 | |
| HG18 | M / 41 / C | Motorcycle accident | N/A | N/A | 250 | 780 | 250 | 39 | 160 | 3300 | 41 | 130 | 1800 | 2000 | 1300 | 570 | 520 | 2300 | |
| HG64 | M / 63 / C | Cerebral vascular trauma | N/A | Coumadin | 210 | 150 | 730 | 60 | 97 | 3600 | 29 | 160 | 2700 | 2000 | 1900 | 690 | 570 | 680 | |
| HH37 | M / 54 / C | Anoxia | N/A | Malaria in Vietnam, Darvocet | 440 | 700 | 930 | 59 | 190 | 5400 | 19 | 250 | 4100 | 2600 | 2000 | 1400 | 630 | 2300 | |
| HH581 | M / 58 / C | Subarachnoid hemorrhage | 1 ppd x40 years | COPD, emphysema, possible HTN, no meds | 770 | 2100 | 810 | 33 | 100 | 4100 | 59 | 18 | 2000 | 3100 | 3500 | 1600 | 620 | 2300 | |
| HG95 | F / 47 / H | Closed head trauma | yes | N/A | 220 | 220 | 180 | 9.3 | 93 | 2100 | 19 | 160 | 1800 | 670 | 1300 | 750 | 400 | 4000 | |
| HK37 | F / 56 / C | Brain hemorrhage | N/A | HTN, diabetes | 260 | 710 | 460 | 17 | 160 | 1400 | 69 | 130 | 1700 | 2200 | 3600 | 920 | 470 | 5500 | |
| HH13 | M / 55 / A | Aneurysm | N/A | HTN, arthritis | 180 | 520 | 250 | 74 | 380 | 1900 | 2.4 | 120 | 2000 | 830 | 650 | 2600 | 250 | 6400 | |
| HG3 | F / 30 / C | Glioblastoma | N/A | N/A | 190 | 110 | 1600 | 38 | 390 | 1400 | 19 | 94 | 1900 | 1100 | 4100 | 360 | 890 | 7200 | |
| HH18 | F / 78 / AA | CVA | N/A | HTN, NIDDM, asthma, arthritis | 370 | 810 | 1100 | 32 | 180 | 3900 | 23 | 28 | 1200 | 600 | 2800 | 2500 | 910 | 5600 | |

Preferred CYPs with low activity
Preferred CYPs with high activity

* C= Caucasian, H= Hispanic, A= Asian, AA= African American

Note: All donors in the single donor panel are targeted for a low correlation (r< 0.5) between any two CYP activities.

Additional selections for high/low single donor HLMs with specific CYP activities can also be chosen from the allelic variant donor panel at bdbiosciences.com/admetox.

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