



Hemo ID[®]

Donor Quick Screen (DQS) Panel



Cost-effective extended antigen typing for
rare donor identification

Facilitating Access to Rare Donors

Every year, international blood donor programs lose rare donors due to sickness, age, or other factors. The Hemo ID[®] DQS Panel, developed for use on the MassARRAY[®] System, simplifies the identification process for new donors by quickly and easily testing thousands of samples.

An Ideal Laboratory Workflow

With a rapid and robust protocol that takes only five and a half hours from DNA to report, you can obtain predicted phenotypes from as few as 12 to as many as 2,000 samples per day.

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

How it Works

Genomic DNA samples are amplified using the provided PCR primers, PCR enzyme, and dNTPs. Residual dNTPs are dephosphorylated with SAP. Following single nucleotide primer extension and termination reactions, the extension products are transferred to a support surface (SpectroCHIP® Array) and loaded into the MassARRAY mass spectrometer for data acquisition. Data analysis software then makes genotype assignments and generates predicted phenotypes.

Performance

Genotype and predicted phenotype call rates of > 99% were observed at two independent test sites (n= 768). There was a greater than 99% concordance between the predicted phenotype calls generated by the Hemo ID DQS Panel and those derived from using the Immucor PreciseType™ HEA Test or serology (n=88).

BLOOD GROUP ANTIGENS INCLUDED IN THE HEMO ID® DQS PANEL

Rh: ce, Ce, cE, CE, Cw, Cx, V, VS, hrB, hrS, Crawford

Kell: k/ K, Kpa/ Kpb, Jsa/ Jsb

Duffy: Fya/ Fyb, Fyx, GATA

Kidd: Jka/ Jkb

MNS: M/ N, S/ s, U, Uvar P2, Uvar NY, Uneg

Lutheran: Lua/ Lub

Dombrock: Doa/ Dob, Hy +/-, Joa +/-

Landsteiner Wiener: LWa/ LWb

Diego: Dia, Dib

Colton: Coa/ Cob

Scianna: Sc1/ Sc2

Cartwright: Yta/ Ytb

BETA GLOBIN VARIANTS

Hemoglobin C: HbC

Hemoglobin E: HbE

Hemoglobin S: HbS

ORDERING INFORMATION

Product	Catalog #
Oligos	
Hemo ID Module, Donor Quick Screen (Primers Only)	17934
Reagents	
iPLEX Pro, PCR Reagent And SpectroCHIP Kit - CPM (2x96)	10303F
iPLEX Pro, PCR Reagent And SpectroCHIP Kit - CPM (2x384)	10219D
iPLEX Pro, PCR Reagent And SpectroCHIP Kit (2x96)	10303
iPLEX Pro, PCR Reagent And SpectroCHIP Kit (2x384)	10219

References

1. Gassner C, Meyer S, Frey BM, Vollmert C. Matrix-assisted laser desorption/ionisation, time-of-flight mass spectrometry-based blood group genotyping--the alternative approach. *Transfus Med Rev.* 2013;27(1):2-9.
2. Meyer S, Vollmert C, Trost N, Brönnimann C, Gottschalk J, Andreas B, Frey BM, and Gassner C. High-throughput Kell, Kidd, and Duffy matrix-assisted laser desorption/ionization, time-of-flight mass spectrometry-based blood group genotyping of 4000 donors shows close to full concordance with serotyping and detects new alleles. *Transfusion.* 2014;54(12):3198-207.

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